MULTIPLE CHOICE PRACTICE QUESTIONS/ANSWERS FOR ONLINE/OMR AITT-2020



Draughtsman Mechanical Trade Theory(2nd Year)

Directorate of Technical Education & Training, Odisha, Cuttack (Uploaded in www.sctevtodisha.nic.in)

AUTO CAD

1. means	What does UCS in the context of CAD s?	8. The coordinates for the origin in the coordinate plane are
(a)	User Coordinate System	(a) 1, 1 (b)0, 0. (c) 0, 1 (d)1, 0
(b)	United CAD Software	 A strip that holds a set of buttons in AutoCAD is called
(c)	Unite, Cut and Select	
(d)	Universal CAD settings	(a) Thumbnail (b) Toolbar (c)Icon(d) None of the above
	at is the keyboard shortcut to turn FF the object snap (OSNAP) in AD?	10. What function key controls the ortho mode?
(a) F3 the ab		(a) F6. (b)F8. (c)F9 (d) None of the above
3. ON/OF	What is the keyboard circuit to turn FF the ORTHO made in AutoCAD?	11. If you need the text to be reserved, when you mirror the text, then you need to set
(a)	F3. (b)F4. (c)F8. (d)F9	(a) MIRRTEXT to 0
4.	The extension for AutoCAD template	(b) MIRRTEXT to 1
	·	(c) TEXTMIRR to 0
(a) (d)DXI	DWG. (b)DWT. (c) DWF.	(d) TEXTMIRR to 1
5.	When drawing in 2D, what axis do you	12. What happens if you fillet these two lines with radius 0?
not wo	ork with?	(a) Cannot fillet
(a)	X. (b)Y. (c) WCS. (d)Z	(b) Sharp corner
6.	To print the entire project, you will	(c) Both (a) and (b)
choose	e to regulate what do plot?	(d) None of the above
(a) Windo	Display. (b) Extends (c) Limits (d)	13. With the multiple Text editor, you can do all of the following, except
vvirido	W	(a) Insert number and bulleted list
7. horizo	The coordinate plane divided by a ntal number line is called what?	(b) Insert specific drafting and engineering symbols
(a)	Y – axis. (b)Origin (c) X – axis	(c) Insert pictures
	adrant	(d) Create fields such as date, time and author

14. What is the command used to draw ti	ne ((b) sampling oscilloscope
dimension line as shown in figure. Given below?	((c) Storage oscilloscope
(a) Dim jogged (b) Dimjogline. (c) Jo	gged ((d) simple oscilloscope
line. (d) Jogged dim	2	20. A dual beam oscilloscope consists of
15. Whenever you save a drawing a new		
breakup file is created which contains file without changes, what is the extension of	`	(a) two electron guns
backup file?		(b) two independent CRTs
(a) DWG. (b) SVG. (c) BAK. (d) E	BCK ((c) single beam splited into two beams
16. The heart of an oscilloscope is	((d) none of the stated above
	2	21. Lissajous figures are used in the
(a) Power supply (b)	r	measurement of
CRT	((a) current (b) voltage(c) frequenc
(c) Vertical amplifier (d)		(d) power (VxI)
Horizontal amplifier	2	22. In a CRT, the emission of electrons
17. The waveform used in CRO for	t	takes place at temperature
deflecting the beam from left to right is	,	(a) 3000C (b) 6000C. (c) 8000C (d) 12000C
(a) Saw tooth (b) Square. (c)	2	23. The frequency range of a sweep
Rectangular (d) Triangular	C	oscillator used in a CRO is kept
18. The intensity of the beam display	on ((a) 10Hz to 30kHz (b) 1kHz to 300kHz
the CRO screen should be kept for	((c) 10kHz to 3000kHz. (d)1MHz to 30MHz
(a) Saving the power consumption	2	24. The substance used in coating a
(b) Accurate measurement	p	phosphor layer inside the screen of a CRT is
(c) Obtaining clear vision	-	(a) notaccium compound
(d) Increasing the life of CRT	·	(a) potassium compound(b) zinc compound
 Measurement of high frequencies 	; ((c) Sodium compound
above 100 MHz can be carried out on a	,	(d) none of the above
		

(a)

Dual trace oscilloscope

25. CRT used in CRO requ	•	30. Which function makes a stable	
positive voltage of the range of	Γ	waveform displayed on the DSO screen?	
(a) 5 kV to 6 kV	(b)	A: Auto set function B: Triggering	
8 kV to 10 kV		function	
(c) 15 kV to 20 kV	(d)	C: Saving a setup function D: Recalling a	ì
25 kV to 30 kV		setup function	
26. The sensitivity of an os	cilloscope	31. Which acquisition mode is used by the	he
should be	omosoopo	DSO to sample the highest and lowest value	
		of the input signal?	
(a) 0.1 mV / Div. to 5 mV / Div. to 5 mV / Div.	Div. (b) 1 mV /	A. Auto mada D. Cample made C. Average	
DIV. 10 5 IIIV / DIV.		A: Auto mode B: Sample mode C: Average mode D: Peak detect mode	;
(c) 1 V / Div. to 5 V / Div.	(d) 10 V /	mode B. I can detect mode	
Div. to 50 mV / Div.		32. What is the purpose of sampling in	
27. The trigger control of a	CRO	DSO operation?	
controls		A: Control time base signal	
(a) hor. rolling of signal dis	play	B: Convert analog signal to digital	
(b) vert. rolling of signal dis	splay	C: Convert digital signal to analog	
(c) both hor. And vert. rolling	ng of signal	D: Visualize the signal	
display		33. How the overall operation of DSO is	
(d) none of the above		controlled?	
28. What is the full form of	D.S.O?	A: Using microprocessors	
A: Dual System Oscillator	B: Dual	B: Using ICs and transistors	
Storage Oscillator		-	
C: Digital System Oscilloscope	D. Digital	C: Using discrete components	
Storage Oscilloscope	, D. Digital	D: Using diodes and transistors	
		34. Which function is performed by the	
29. What type of wave form		sample / Hold circuit along with the ADC in	
pin number 2 of function gener	rator IC 8038?	Digital Storage Oscilloscope?	
A: Sine wave	B: Square	A: Storage	
wave		B: Data display	
C: Triangular wave	D: Modulated	C: Data acquisition	
wave		D: Upload to computer	

35. What is the full form of C.R.O?	D: Convert it to Binary numbers
A: Common Ray Oscilloscope	40. Which circuit is used in Digital Storage
B: Cartridge Ray Oscilloscope	Oscilloscope (DSO) to convert the input sample voltage into digital information?
C: Cathode Ray Oscilloscope	A: Rectifier circuit
D: None of these	B: Inverter circuit
36. Which type of waveform is available in pin number 3 of IC 8038 function generator?	C: Digital to Analog converter circuit D: Analog to Digital converter circuit
A: Sine wave B: Square wave	41. Which type of waveform is available at pin number 9 of function generator IC 8038?
C: Triangle wave D: Modulated wave	A: Sine wave B: Square wave
37. What is the advantage of the Digital Storage Oscilloscope?	C: Triangular wave D: Modulated wave
A: Process signals in analog format	42. The sensitivity of a CRO is determined
B: Make measurement of digital data	by its
C: Stores digital data for later viewing	(a) Horizontal amplifier(b) vertical amplifier
D: Electron beam moves across the screen	(c) CRT
38. Which part of the DSO stores the processed data of input signal voltage?	(d) sweep oscillator
A: Memory	43. What would you use to create a plotline?
B: Screen display	(a) POLYLINE command(c) PEDIT command
C: Analog to digital converter	(b) PLINE command
D: Digital to analog converter	(d) None of the above
39. How the digital equipment works with the input voltage samples?	44. To draw a regular oval shape that has two centers of equal radius, which command
A: Constant output voltage	should you use?
B: Continuously variable voltage C: Continuously variable current	(a) CIRCLE (b) ELLIPSE

(c) ARC	(a) Subtract	
(d) None of the above	(b) Join	
45. Concentric circles are circles	(c) Union	
at	(d) POLYLINE	
Meet at a single point	50. All of the axes in the 3D coordinate system	
(b) Are not quite circular	meet at	
(c) Share a centre point	(a) 60° Angles (b) 90°Angles	
(d) None of the above	(c) 120°Angles (d) 135°Angles	
46. Which of the following is not a property of an object?	51. How many dimensional Cartesian system can measure by using CMM?	
(a) Line weight	A Two dimensions	
(b) Elevation	B Three Dimensions	
(c) Hyperlink	C Four Dimensions D Only positive and negative Dimension	
(d) Measure	52. Which directions the movements of probe	
47. What you cannot create from the command	in third axis?	
offset?	A Up and down B Right to left C Left to right	
(a) Vertical straight	D Rotation of probe	
(b) Parallel arcs	53. What is the name of gantry type super structure having two legs?	
(c) Three parallel line		
(d) Concentric circles	A Guide rail. B Air bearings C Bridge D Position	
48. Which quadrant has a negative X value but positive Y value?	54. How many types of probes are used in CMM?	
(a) First quadrant	A 6. B 4 C 3 D 5	
(b) Second quadrant	55. Which type of probe is used for soft or	
(c) Third quadrant	delicate parts?	
(d) Fourth quadrant	A White light. B Optical scanner	
49. Which command converts discrete objects in plotline?	C Leaser seams. D Trigger probe	

56. How many decimal points are taken accurately in X, Y coordinate system?	D Position 62. How many types of probes are used in
A 15. B 10 C 14 D 12	CMM?
57. How many systems are used in AutoCAD to entering points on directly?	A 6 B 4 C 3 D 5 63. Which type of probe is used for soft or
A 5. B 2 C 4 D 3	delicate parts?
58. Which co-ordinates are used to draw a line at particular angle?	A White light
	B Optical scanner
A Objective co-ordinates B Relative co-ordinates	C Leaser seams
C Absolute co-ordinates D Polar co-	D Trigger probe
ordinates	64. How many decimal points are taken
59. How many dimensional Cartesian system	accurately in X, Y, coordinate system?
can measure by using CMM?	A 15 B 10 C 14 D 12
A Two dimensions	65. How many systems are used in Auto cad
B Three Dimensions	to entering points on directly?
C Four Dimensions	A 5 B 2 C 4 D 3
D Only positive and negative Dimension	66. Which co-ordinates are used to draw a line at particular angle?
60. Which directions the movements of probe in third axis?	A Objective co-ordinates
A Up and down	B Relative co-ordinates
B Right to left	C Absolute co-ordinates
C Left to right	D Polar co-ordinates
D Rotation of probe	67. What is the reason CAD software is used
61. What is the name of gantry type super	in engineering industries?
structure having two legs?	A Labor cost is too high
A Guide rail	B To draw the drawings very accurately and time also saved
B Air bearings	C Man power is reduced
C Bridge	D Skilled person required algorithms

68. How many systems are used in Auto cad to entering points on directly?	73. Which shape of probe is used for measuring special features?
A 5 B 2 C 4 D 3	A Radial
69. Which co-ordinates are used to draw a	B Quadrant
line at particular angle?	C Spherical ball
A Objective co-ordinates	D Triangular
B Relative co-ordinates	74. Which device via the probe that is
C Absolute co-ordinates	positioned by automatically?
D Polar co-ordinates	A Algorithms
70. Which type of probe is used to measure the component more faster than the	B Robotic
conventional probe?	C DCC
A Mechanical probe	D CCD
B Optical probe	75. Which device monitors the position of the probe while tacking measurement in CMM?
C Trigger probe	A Sensor
D Scanning probe	B Algorithms
71. Which type of probe non toughing the material and captured image of the surface	C DCC
and calculated the reading?	D Point cloud
A Scanning probes	76. Which device via data's are analyzed the
B Mechanical probe	point clouds are generated for the Construction of features?
C Optical probes with CCD systems	A. DRO B. CCD C .DCC D. Regression
D Trigger probe	77. What is the device medium is used in
72. Which device is used to control the probe	gantry type CMM for ensuring friction free
in much the same way of remote controlled cars?	travel of legs?
A Tool switch	A Styles B Quill
B Hand Box with toy sticks	C Air bearings D Carriage
·	
C 3 axis digital reads out	

78. What device is used to enhance the	C To create the folder or icons an desktop
approachability of the measuring probe to complicated work pieces?	D To turn the windows explorer
A Granite surface plate	83. What is the feature of F6 key in AutoCAD?
B Points cloud	A Dynamic UCS (AutoCAD only)
C Optical rotary table	B Grid display
D The Bridge	C Polar tracking
79. Which materials made out of mechanical	D Dynamic input
probe are used for commonly in CMM?	84. What are the combination keys are used to open the save drawing as dialogue box?
A Hard ball	
B Steel ball	A CTRL + H
C High carbon steel	B CTRL + I
D Cast steel	C CTRL + S
80. What is the combination of key is used in	D CTRL + P
AutoCAD to turns design centre ON/OFF?	85. What is the short cut key for restricts the
A CTRL + Z	cursor movement to specified grid intervals?
B CTRL + R	A F11
C CTRL + 3	B F9
D CTRL + 2	C F10
81. What is the feature of F1 Key in Microsoft	D F3
word?	86. Which component is used to draw a line
A Object snap	from the centre of the circle to the middle of the vertical line?
B Help	A. WCS B. Offset C. O SNAP D. UCS
C Grid display	87. When drawing in 2D what axis does not
D Grid snap	work with?
82. What is the main function of CAD?	A. X axis B. Z axis C. WSC D. Y axis
A To design of drawings and layout of product	

B To open the pop - up menu

88. Which type of probe measured the job very quickly not only to measure the size and also create the 3D image of the part?

A Optical probe

B Scanning probe

C Laser beams or white light

D Trigger probe

89. Which command is used to divide the object into segments having predefined length?

A Divide

B Measure

C Trim

D Chamfer

90. What is the function of CTRL + 0 key in AutoCAD?

A Turns tool palettes window ON/OFF

B Turns design centre ON/OFF

C Turns the properties ON/OFF

D Turns user interface elements ON/OFF

91. What is the function of CTRL + P key in AutoCAD?

A Turns property ON/OFF

B Turns design centre ON/OFF

C Opens the plot dialogue box

D Opens the save drawings as dialogue box

92. What is the function of CTRL + J key in AutoCAD?

A Turns a group as ON/OFF

B Performs the operation cancelled by UNDO

C Repeats the last command

D Recall last command

93. What is the function of CTRL + X key in AutoCAD?

A Switch between view parts

B Removes select object from drawing to clipboard

C Recall the last command

D urns tool palettes window ON/OFF

94. What is the reason CAD software is used in engineering industries?

A Labour cost is too high

B To draw the drawings very accurately and time also saved

C Man power is reduced

D Skilled person required algorithms

Answer:

1. (a) 2.(a) 3.(c) 4.(b) 5.(d) 6.(c) 7.(c) 8.(b) 9.(b) 10.(b) 11.(b) 12.(b)13.(c) 14.(b) 15.(c) 16.(b) 17.(b) 18.(a)19.(d) 20.(b) 21.(a) 22.(c) 23.(c) 24.(a) 25.(b) 26.(a) 27.(a) 28.(a) 29.(d) 30.(a) 31.(a) 32.(d) 33.(b) 34.(a) 35.(c) 36.(c) 37.(c) 38.(c) 39.(a) 40.(d) 41.(d) 42.(b) 43.(b) 44.(b) 45.(c) 46.(d) 47.(a) 48.(b) 49.(b) 50.(b) 51. B 52. A 53. C 54. B 55.B 56.C 57.D 58.D. 59.B 60.A 61.C 62.B 63.B 64.C 65.D 66.D 67.B 68.C 69.B 70.B 71.C 72.A 73.D 74.C 75.C 76.A 77.D 78.B 79.A 80.A 81.C 82.B 83.C 84.C 85.C 86.B 87.D 88.C 89.C 90.B 91.B 92.C 93.B 94.B

PIPE FITTING & VALVES

1.	Which one of the following types of pipes	7.	Threads produced on the outside of a
	is best suited food processing industry?		piece of pipe are called
	(A) CI pipes		(A) Tapered threads
	(B) GI pipes		(B) Straight threads
	(C) SS pipes		(C) OD threads
	(D) PVC pipes		(D) External threads
2.	Galvanized pipes are steel or iron pipes		
	coated with	8.	A 'P&ID' drawing is a
	(A) Zinc		(A) Procedures and installation
	(B) Lead		drawing
	(C) Copper		(B) Pipe and instrumentation diagram
	(D) Aluminium		(C) Process and instrumentation
3.	PVC pipes manufactured using		drawing
	(A) Rubber		(D) Process and installation diagram
	(B) Plastic	9.	Tapered threads heave a taper of
	(C) Nylon		(A) 1:12
	(D) Polyvinylchloride		(B) 1:16
4.	CI pipes are manufactured using		(C) 1:18
	(A) Grey cast iron		(D) 1.20
	(B) White cast iron	10	. A fitting that connects two pipes placed at $% \left(x\right) =\left(x\right) +\left(x$
	(C) Malleable cast iron		right angle to each other is a
	(D) Ductile cast iron		(A) 90° below
5.	The majority of pipe connections are made		(B) 45° below
	with		(C) Lateral fitting
	(A) Flanges		(D) 90° connector
	(B) Pipe fittings	11	. Pipes are fastened together without the
	(C) Sliding connectors		use of pipe fittings by
	(D) Self - locking connectors		(A) Forging
6.	That standards recognize two types of pipe		(B) Riveting
	threads straight and		(C) Welding
	(A) Sloped		(D) Casting
	(B) Offset	12	. A "return bend" fitting changes the
	(C) Tapered		direction of the pipe
	(D) Curved		(A) 360°

(B) 180°

(C) 90°	(A) Visualisations
(D) 45°	(B) Interference checks
13. Fittings are fastened to PVC pipe	(C) Presentation drawing
by	(D) All of the above
(A) Use of threaded fittings	19. This type of pipe is commonly used for
(B) Use of soldered fittings	water, steam, oil and gas.
(C) Installation of friction – type	(A) Wrought iron or copper
fittings	(B) PVC or steel
(D) Applying and adhesive	(C) Steel or wrought iron
14. PVC pipe is made from	(D) Copper or PVC
(A) Steel	20. These types of pipes are generally
(B) Plastic	connected with bell and spigot joints or
(C) Copper	flanged joints.
(D) None of the above	(A) Soil and Waste
15. What is the most common pipe	(B) Water and gas
material	(C) Water and steam
(A) Steel	(D) Gas and soil
(B) Plastic	21. This type of drawing, vertical pipes may be
(C) Copper	resolved into horizontal plane.
(D) Clay	(A) Standard view
16. Which type of pipe fitting allows the	(B) Elevation view
contents ab to pipes to flow together into	(C) Transverse view
one pipe?	(D) Developed piping
(A) Return bend	
(B) Elbow	
(C) Lateral	22. This type of drawing shows two lines
(D) Cross	representing the pipe diameter
17. Single – line drawing are used	(A) Single – line
(A) To accurately represent the space	(B) Double – line
the pipes take up	(C) Standard piping
(B) Because they are simple to draw	(D) Centre – line piping
(C) Because they look much more	23. Regardless of type, all bulbs have the
realistic	following basic parts, with the exception
(D) Because you don't need to use	of
symbols to represent the	(A) Bonnet
various components	(B) Nipple (C) Actuator
18. Double - line drawing are used for	(D) Body

24. The body of a valve typically receives inlet	C. to remove the burrs from internal hole
and outlet piping through any of the	of pipe
following types of joints except	D. to give a good platform for make
(A) Glued	internal thread
(B) Welded	30. Which pipe cutter is best for cutting
(C) Threaded	the large diameter size pipes?
(D) Bolted	A. Pipe cutter
25. The internal elements of a valve are	B. Two guided roller pipe cutter
collectively referred to as a	C. multi wheel chain pipe cutter
valve's	D. Chain pipe cutter
(A) Guts	31. After cutting the pipe by multi chain
(B) Trim	pipe cutter, the cutting wheels of pipe
(C) Works	cutter soaked and washed out. The pipe
(D) Packings	cutters are soaked by -
26. Pipe vice can be used to hold pipes upto -	A. Kerosene
A.63 mm diameter	B. Petrol
B. 60mm diameter	C. Light oil
C. 59 mm diameter	D. Diesel
D. 62 mm diameter	32. Which pipes are used in drainage
27. Which pipe vice can be folded and	system?
carried easily to any working place?	A. GI pipes
A. pipe vice	B. Mild steel pipes
B. Portable folding pipe vice	C. Plastic pipes
C. Chain pipe vice	D. CI soil pipes
D. Bench pipe vice	33. Which pipes are used in air
28. Chain Pipe vice can be used to hold	conditioning systems?
pipes upto -	A. GI PIPES
A.180mm diameter	B. MILD STEEL PIPES
B. 150mm diameter	C. COPPER PIPES
C. 200mm diameter	D. ALUMINIUM PIPES
D. 250mm diameter	34. Which standard pipe fitting provide
29. After cutting the pipe the pipe must be	deviations of 90° and 45° in pipe working
reamed by pipe reamer, because -	system?
A. to remove ridge on the inside of the	A. Elbows
pipe	B. Reducer
B. to finish the internal diameter of pipe	C. Coupling
	D. Union

- 35. Which standard pipe fitting used for closing the end of a pipe or fitting which has an external thread?
- A. Reducer
- B. Coupling
- C. Caps
- D. Plug
- 36. Which standard pipe fitting used for closing a pipeline, which has an internal thread?
- A. Reducer
- B. Coupling
- C. Caps
- D. Plug
- 37. Which pipe fitting have internal threads to connect two same diameter pipes?
- A. Eccentric reducer
- B. Concentric reducer
- C. Reducer
- D. Coupling
- 38. Which pipe fitting inserted in a pipe line to permit connections with little change to the position of pipe?
- A. Reducer
- B. Union
- C. Coupling
- D. Bend
- 39. Which pipe fitting is used to connect two pipes with different diameters?
- A. Coupling
- B. Union
- C. Reducer
- D. Bend
- 40. Pipe wrenches are used to holding and gripping of pipes with diameters of -
- A. 15mm to 50mm
- B. 20mm to 50mm
- C. 10mm to 50mm
- D. 25mm to 50mm
- 41. Chain Pipe wrenches are used to holding and gripping of pipes with diameters of -
- A. 45mm to 150mm
- B. 25mm to 150mm
- C. 50mm to 150mm
- D. 60mm to 150mm
- 42. Which part of the pipe wrench gives a positive grip?
- A. Jaw
- B. Pivot
- C. Spring
- D. Adjusting nut
- 43. Which pipe bender have tripod stand?

- A. Portable hand operated pipe bender,
- B. Bench type hand operated pipe bender
- C. Hydraulic pipe bender
- D. Portable folding pipe bender
- 44. Which part is designed as a groove in the bench type hand operated pipe bender?
- A. Pipe guide
- B. Lock nut
- C. Lever
- D. Inner former
- 45. Which pipe bender can be used for bending G.I and M.S pipes without sand filling to any direction?
- A. Portable hand operated pipe bender
- B. Bench type hand operated pipe bender
- C. Hydraulic pipe bender
- D. Portable folding pipe bender
- 46. Which part of the hydraulic bending machine available in various sizes and interchangeable?
- A. Inner former
- B. Back former
- C. Operating lever
- D. Base plate
- 47. For cutting external threads on pipe, the Pipe dies are generally available in -
- A. 1/2 inch to 3 inch
- B. 1/2 inch to 4 inch
- C. 1/4 inch to 4 inch
- D. 1/4 inch to 3 inch
- 48. Which die stock is required to turn the dies for cut the thread on pipes?
- A. Adjustable die stock
- B. Ratchet type die stock
- C. Solid die stock
- D. Plain solid die stock
- 49. What is the other name of household water tap?
- A. Plain water tap
- B. Plug cock
- C. Stop cock
- D. Screw down water tap
- 50. The washer of the household water tap
- is made of -A. Rubber
- B. Plastic
- B. Plastic
- C. Asbestos
- D. Teflon
- 51. Pipe vice can be used to hold pipes up to -
- A.63 mm diameter, B. 60mm diameter, C. 59 mm diameter, D. 62 mm diameter

- 52. Which pipe vice can be folded and carried easily to any working place?
- A. pipe vice, B. Portable folding pipe vice, C. Chain pipe vice, D. Bench pipe vice
- 53. Chain Pipe vice can be used to hold pipes upto -
- A.180mm diameter, B. 150mm diameter, C. 200mm diameter, D. 250mm diameter
- 54. After cutting the pipe the pipe must be reamed by pipe reamer, because -
- A. to remove ridge on the inside of the pipe, B. to finish the internal diameter of pipe
- C. to remove the burrs from internal hole of pipe, D. to give a good platform for make internal thread
- 55. Which pipe cutter is best for cutting the large diameter size pipes?
- A. Pipe cutter, B. Two guided roller pipe cutter, C. multi wheel chain pipe cutter, D. Chain pipe cutter
- 56. After cutting the pipe by multi chain pipe cutter, the cutting wheels of pipe cutter soaked and washed out. The pipe cutters are soaked by -
- A. Kerosene, B. Petrol, C. Light oil, D. Diesel
- 57. Which pipes are used in drainage system?
- A. GI pipes, B. Mild steel pipes, C. Plastic pipes, D. CI soil pipes
- 58. Which pipes are used in air conditioning systems?
- A. GI PIPES, B. MILD STEEL PIPES, C. COPPER PIPES, D. ALUMINIUM PIPES
- 59. Which standard pipe fitting provide deviations of 90° and 45° in pipe working system?
- A. Elbows, B. Reducer, C. Coupling, D. Union
- 60. Which standard pipe fitting used for closing the end of a pipe or fitting which has an external head?
- A. Reducer, B. Coupling, C. Caps, D. Plug
- 61. Which standard pipe fitting used for closing a pipeline, which has an internal thread?
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- 62. Which pipe fitting have internal threads to connect two same diameter pipes?

- A. Eccentric reducer, B. Concentric reducer, C. Reducer, D. Coupling
- 63. Which pipe fitting inserted in a pipe line to permit connections with little change to the position of pipe?
- A. Reducer, B. Union, C. Coupling, D. Bend
- 64. Which pipe fitting is used to connect two pipes with different diameters?
- A. Coupling, B. Union, C. Reducer, D. Bend
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- A. 15mm to 50mm, B. 20mm to 50mm, C. 10mm to 50mm, D. 25mm to 50mm
- 66. Chain Pipe wrenches are used to holding and gripping of pipes with diameters of -
- A. 45mm to 150mm, B. 25mm to 150mm, C. 50mm to 150mm, D. 60mm to 150mm
- 67. Which part of the pipe wrench gives a positive grip?
- A. Jaw, B. Pivot, C. Spring, D. Adjusting nut
- 68. Which pipe bender have tripod stand?
- A. Portable hand operated pipe bender, B. Bench type hand operated pipe bender
- C. Hydraulic pipe bender, D. Portable folding pipe bender
- 69. Which part is designed as a groove in the bench type hand operated pipe bender?
- A. Pipe guide, B. Lock nut, C. Lever, D. Inner former
- 70. Which pipe bender can be used for bending G.I and M.S pipes without sand filling to any direction?
- A. Portable hand operated pipe bender, B. Bench type hand operated pipe bender
- C. Hydraulic pipe bender, D. Portable folding pipe bender
- 71. Which part of the hydraulic bending machine available in various sizes and interchangeable?
- A. Inner former, B. Back former, C. Operating lever, D. Base plate
- 72. For cutting external threads on pipe, the Pipe dies are generally available in -

- A. 1/2 inch to 3 inch, B. 1/2 inch to 4 inch, C. 1/4 inch to 4 inch, D. 1/4 inch to 3 inch
- 73. Which die stock is required to turn the dies for cut the thread on pipes?
- A. Adjustable die stock, B. Ratchet type die stock, C. Solid die stock, D. Plain solid die stock
- 74. What is the other name of household water tap?
- A. Plain water tap, B. Plug cock, C. Stop cock, D. Screw down water tap
- 75. The washer of the household water tap is made of -
- A. Rubber, B. Plastic, C. Asbestos, D. Teflon
- 76. For which cause water flowing from the tap even when firmly closed?
- A. Worn out of defective washer, B. Spindle thread run out,
- C. Stuffing box packing dry, D. Washer loose on valve
- 77. For which cause water flowing from around the spindle or stuffing box screws?
- A. Worn out of defective washer, B. Spindle thread run out,
- C. Stuffing box packing dry, D. Defective packing in stuffing box
- 78. For which cause spindle continuously slipping when turned and tap will not shut off?
- A. Worn out of defective washer, B. Spindle thread run out, 88. In which valve the flow fluid or gas in one
- C. Stuffing box packing dry, D. Washer loose on valve
- 79. For which cause tap hard to turn on and off?
- A. Worn out of defective washer, B. Spindle thread run out,
- C. Stuffing box packing dry, D. Washer loose on valve
- 80. Why loud noises in the tap occur?
- A. Worn out of defective washer, B. Spindle thread run out
- C. Stuffing box packing dry, D. Washer loose on valve

- 81. What are the remedies followed by us if water flowing or dripping from the tap even when firmly closed?
- A. Replace washer, B. Tighten stuffing box, C. Replace packing, D. Replace stuffing box
- 82. What are the remedies followed by us if water flowing from around the spindle?
- A. Replace washer, B. Tighten stuffing box, C. Replace tap, D. Replace stuffing box
- 83. Which valve has gate like disc?
- A. Glove valve, B. Gate valve, C. Non return valve, D. Needle valve
- 84. Which valve should either be fully opened or completely closed?
- A. Glove valve, B. Gate valve, C. Non return valve, D. Needle valve
- 85. Which valve is best suited for main supply lines and pump lines?
- A. Check valve, B. Gate valve, C. Non return valve, D. Needle valve
- 86. Which valve allows one way flow in water supply or drainage lines?
- A. Glove valve, B. Gate valve, C. Non return valve, D. Needle valve
- 87. What is the other name of non return valve?
- A. Needle valve, B. Check valve, C. Plug cock, D. Stop cock
- direction lift the ball, when the pressure released the ball falls against its seating.
 - A. Swing check valve, B. Disc type check valve, C. Ball type check valve, D. Disc type gate valve
 - 89. Which valve has globe shaped body?
 - A. Gate valve, B. Globe valve, C. Check valve, D. Non return valve
 - 90. In which valve the critical parts such as washer, seat, packing can be replaced?
 - A. Gate valve, B. Globe valve, C. Check valve, D. Non return valve

- 91. Which valve permits accurate control of the flow of water?
- A. Gate valve, B. Globe valve, C. Check valve, D. Non return valve
- 92. Which valve can be used repeatedly, because it can be repaired easily?
- A. Gate valve, B. Globe valve, C. Check valve, D. Non return valve
- 93. Which joint is used to connect two lengths of pipes together in piping installations?
- A. Universal joint, B. Cotter joint, C. Knuckle joint, D. Flange joint
- 94. The functions of the valves are -
- A. Stop the flow in pipeline, B. Regulate the flow in pipe line
- C. Stop or regulate the flow in pipeline, D. Connect the pipes
- 95. Which valve is used to obtain a fine degree of control over the flow in the pipe?
- A. Gate valve, B. Glove valve, C. Check valve, D. Needle valve
- 96. Plug cocks are suitable for -
- A. High pressure application, B. Medium pressure application,
- C. Low pressure application, D. In all application
- 97. Which valves are safety devices?
- A. Gate valve, B. Globe valve, C. Relief valve, D. Check valve
- 98. In which valve spring is used to close or open the valve?
- A. Gate valve, B. Globe valve, C. Relief valve, D. Check valve
- 99. Which valve is a compression type valve?
- A. Gate valve, B. Globe valve, C. Stop cock, D. Check valve
- 100. Which valve controls the flow of water by means of a circular metal disk holder?
- A. Plug cock, B. Stop cock, C. Needle valve, D. Check valve

- 101. In which valve the flow of fluid or gas in one direction lifts the disc and allows one way flow only?
- A. Gate valve, B. Globe valve, C. Non return valve, D. Needle valve
- 102. In which valve the flow of a fluid or gas in direction lifts the balls and allows one way flow?
- A. One way flow check valve. Ball type check valve, C. Swing check valve D. Disc type check valve
- 103. Which part of the valve containing the rubber washer?
- A. Stuffing box, B. Bonnet, C. Valve seat, D. Metal disk holder
- 104. Which part of the valve has soft graphite grease hemp packing?
- A. Stuffing box, B. Bonnet, C. Valve seat, D. Metal disk holder
- 105 G.I iron pipes are available in sizes ranging from -
- A.1/2 inch to 4 inch, B.1/2 inch to 5 inch, C.1/2 inch to 6 inch, D. 1/2 inch to 7 inch
- 106. How much thread / inch, in a 1/2 inch pipe?
- A. 12, B. 14, C. 16, D.18
- 107. How much thread / inch, in a 1 inch pipe?
- A. 12, B. 14, C. 11, D. 08
- 108. What is the name of the pipe fitting?



- A. 45° elbow, B. Tee joint pipe, C. Short radius elbow, D. Long radius elbow.
- 109. What is the name of the pipe fitting?



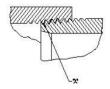
A .Tee joint, B. Eccentric reducer, C. Reducer tee joint, D. Concentric reducer.

110. What is the name of the pipe fitting?



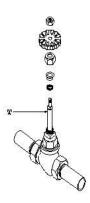
A. Coupling, B. Long nipple, C. Eccentric reducer, D. Concentric reducer.

111. What is the name of part marked as 'x' in the pipe joint?



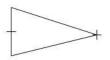
A. Outer pipe, B. Hemp packing, C. Tapered male thread, D. Parallel female thread.

112. What is the name of part marked as 'x'?



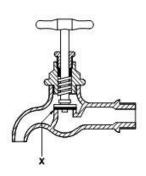
A. Bonnet, B. Packing, C. Gland nut, D. Shaft or spindle.

113. What is the name of pipe line symbol?

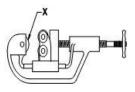


A. Socket, B. Plug or cap, C. Union screwed,D. Reducer concentric.

114. What is the name of part marked as 'X' in water tap?



A. Handle, B. Bonnet, C. Gland nut, D. Valve seat.115. What is the name of part marked as X?

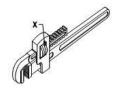


A. Cutter wheel, B. Adjusting screw, C. Guide rollers, D. Hand lever.

116. What is the type of wrench?



- A. Footprint wrench, B. strap wrench, C. chain pipe wrench, D. pipe wrench.
- 117 What is the part marked as 'x'?



- A. Pivot, B. Spring, C. Movable jaw, D. Adjusting nut.
- 118. What is the pipe fitting?



- A. Reducer, B. Nipple, C. Cap, D. Plug.
- 119. What is the pipe fitting?



A. Caps, B. Plug, C. Coupling, D. Reducer.

120. What is the angle of deviations provided on elbows and bends in pipe works?

A .90° and 45°, B. 30° and 60°, C. 20° and 40°, D. 60° and 45°.

121. 206. How the water flow is stopped from the valve around the stuffing box?

A. Replace the spindle, B. Tightening the bonnet, C. Tightening the hand wheel, D. Packing with asbestos hemp.

122. What is the position of eccentric reducer are used in pipe lines?

A. Vertical position, B. Angular position, C. Radius position, D. Horizontal position.

123. What is the remedial measure to stop the dripping of water from house hold tap even after firmly closed?

A. Replace the tap, B. Replace washer, C. Renew tap spindle, D. Tighten stuffing box.

124. How pipes are classified?

A. Uses, B. Colour, C. Shapes, D. Material.

125. Which standard pipe fitting is used to close a pipe line having internal thread?

A. Plug B. Cap C. Reducer, D. Coupling.

126. Which type of wrench is used for more than50 mm diameter pipe to tight with heavy gripping?

A. Strap wrench, B. Foot print wrench, C. Chain pipe wrench, D. Stillson pipe wrench.

127. What is the remedy if the spindle rotates continuously so that the gate valve is not closed?

- A. Replace the valve, B. Tighten the gland nut, C. Replace the worn out part, D. Renew the gland packing.
- 128. Which type of pipe joint take branch at 90°? A. Coupling, B. Tee branch, C. Eccentric reducer, D. Concentric reducer.
- 129. What is the name of the plumber tool to assemble or dismantle pipes of 50 mm to 150 mm diameter?
- A. Strap wrench, B. Chain pipe wrench, C. Stillson pipe wrench, D. Foot point pipe wrench.
- 130. What is the type of visual pipe inspection at 30° angle between the plane of vision and surface?
- A. Direct visual testing, B. Remote visual testing, C. Translucent visual testing, and D. Transparent visual testing.
- 131. Where concentric reducer is used in pipeline?
- A. Vertical, B. Horizontal, C. Reduce the pressure, D. Drive the flow direction.
- 132. Which valve is used to permit fluid flow in one direction only?
- A. Plug-cock, B. Needle valve, C. Non-return valve, D. Pressure regulator valve.
- 133. Which type of wrench is used on finished tubular surface?
- A. Strap wrench, B. Foot point wrench, C. Chain pipe wrench, D. Stillson pipe wrench.
- 134. What is the capacity of the pipe vice to hold pipes diameter in mm?
- A. 68 mm, B. 65 mm, C. 63 mm, D. 72 mm.
- 135. What is the minimum diameter of pipe used with chain wrench?
 - A. A .25 mm, B. 50 mm, C .30 mm, D ,45 mm.
- 136. What is the range of external pipe threads cut by pipe dies?
- A. ½" to 4", B. ¼" to 4", C. 1/8" to 2", D. ¼" to 6".
- 137. Which pipe fitting is used to divert the flow direction of pipe?

- A. Union, B. Plug, C. Elbow, D. Coupling.
- 813. What is the pipe fitting of 90° and its branches may be equal in diameter?
- A. Tee joint, B. Elbow joint, C. Coupling joint, D. Union joint.
- 139. Which valve is used to control flow and is only kept in either open or closed position?
- A. Gate valve, B. Globe valve, C. Needle valve, D. Non-return valve.
- 140. Where universal coupling is used?
- A. Automobile vehicles, B. Textiles mills, C. Engineering machines, D. Large angle drive.
- 141. Which type of coupling is used on vehicle propeller shaft?
- A .Plate coupling, B. Clamp coupling, C. Slip type coupling, D. Universal coupling.
- 142. What is the radius size for long radius elbow? A. Equal the bore the pipe, B. 1 ½ times bore of the pipe C. 3 time bore of the pipe, D. 2 times bore of the pipe.
- 143. What is the radius size for the short radius elbow?
- A. 1 ½ time bore of the pipe, B. Equal to bore of the pipe, C. 3 time bore of the pipe, D. 2 time bore of the pipe.
- 144. Which is used to divert at 45°in pipeline?
- A. Elbow, B. Coupling, C. Reducer, D. Branch.
- 145. Which standard fitting is used for joining pipeline of different diameter?
- A. Plug, .Caps, C. Reducer, D. Coupling.
- 146. What type of fitting is used in straight pipeline to connect two pipes of external threads?
- A .Reducer, B. Coupling, C. Cap, D. Nipple.
- 147. What is the cause of water dripping from the tap even after closed?
- A. Defective washer, B. Spindle thread worn-out, C. Bend spindle, D. Loose valve.
- 148. What causes loud noise in the tap if turned ON?
- A. Spindle bend, B. Spindle thread worn-out, C. Stuffing box packing dry, D. Valve loose on spindle. 149. Which one of the following is not a type of valve?

A. Gate valve. B. Globe valve C. Ball valve	156. A vent port is found on
D. Eccentric valve	A. Pilot operated relief valve B. Direct acting
150. Which of the part form the casing of a valve	relief valve
that holds the fluid going through the valve?	C. Both (a) and (b)
A. Body. B. Bonnet. C. Both (a)	157. Diaphragm cylinders have
and (b) D. None of the above.	A. Small area and long strokes
151. The internal elements of a valve are	C. Large area and short strokes
collectively referred to as a valve's	158. The impurities are removed from
A. Stem B. Trim C. Seat D.	boiler with the help of
Bonnet	A. Safety valve. B. Stop valve C. Fusible
152. When a gas of liquid is heated, it will	plug
A. Contract. B. Stay the same C. Expand	159 A device attached to the steam chest for
D. None of the above	preventing explosion due to excessive internal
153 Direct acting relief valves have response	pressure of steam is called
as a pilot operated relief valve.	A. Safety valve. B. Water level indicator C.
A. Slower B. Same. C.Faster D. None of the above	Pressure gauge D. Fusible plug
154. Pilot operated relief valves have	160 Remote control valve is a kind of
pressure override then as a direct acting relief	
Valve.	A. Gate valve. B. Globe valve.
A. More. B. Less. C. Same	C. Needle valve hone of the above the control of th
155. Solenoid operated relief valves can be	
made from	
A. Direct acting relief valve B. Pilot	
operated relief valve	
C. Either type relief valve	D. None of the above

ANSWER: PIPE FITTING & VALVES

1.c 2.b 3.d. 4.a 5.b 6.c. 7.d. 8.c 9.b 10.a 11. C12.b 13.d 14.b 15.a 16.c 17.b 18.d 19.c 20.b 21.d 22.b. 23.b 24.A 25. b 26.a 27. B 28.c 29. A 30.c 31.(a) 32.b 33.c 34.a 35.c 36. D. 37.d 38.b 39.c 40.a 41.c 42.a 43.a 44.d 45.c 46.a 47.c 48.b 49.d 50.a. 51-A,52-B,53-C,54-A,55-C,56-A,57-B,58-C,59-A,60-C,61-D,62-D,63-B,64-C,65-A,66-C,67-A,68-A,69-D,70-C,71-A,72-C,73-B,74-D,75-A,76-A,77-D,78-B,79-C,80-D,81-A,82-B,83-B,84-B,85-B,86-C,87-B,88-C,89-B,90-B,91-B,92-B,93-D,94-C,95-D,96-A,97-C,98-C,99-C,100-B,101-C,102-B,103-D,104-A,105-C,106-B,107-C,108-A,109-C,110-C,111-B,112-D,113-D,114-D,115-A,116-B,117-D,118-C,119-D,120-A,121-D,122-D,123-B,124-D,125-A,126-C,127-C,128-B,129-B,130-A,131-A,132-C,133-A,134-C,135-B,136-B,137-C,138-A,139-A,140-A,141-B,142-B,143-B,144-A,145-C,146-B,147-A,148-D.149-D 150-C 151-B 152-C 153-C 154-A 155-B 156-A 157-C 158-D 159-A 160-D

POWER TRANSMISSION

1.	What is the most common type of gear used?		7.	Two pulleys of diameters d1 and d2 and at distance X apart are connected by means of			
	(a)	Bevel gear	(b) helical gear			belt drive. The length of the belt	
	(b)	Spur gear	(d) none of the above		is	a contract of the contract of	
2.			has teeth that are cut at		(a)	 π /2 (d1 + d2) 2x + (d1 + d2)2/4x	
		gle to the face			(b)	$\pi/2$ (d1 - d2) 2x + (d1 - d2)2/4x	
	(a)	Bevel gear	(b) helical gear		(c)	$\pi/2$ (d1 + d2) 2x + (d1 - d2)2/4x	
	(b)	Spur gear	(d) none of the above		(d)	$\pi / 2 (d1 - d2) 2x + (d1 + d2) 2/4x$	
3.			llowing types of gears	8.		one pulley, the sum of radii of the	
	can h	ave teeth that	are straight, spiral or		pulley	ys on the driving and the driven shaft	
	hypoi				is constant then		
	(a)	Bevel gears	(b) helical gears		(a)	Open belt drive is recommended	
	(b)	Spur gears	(d) none of the above		(b)	Cross belt drive is recommended	
4.	Whicl	h type of gear	would you use if a large		(c)	Both open and cross belt drives are	
	gear ı	reduction is red	quired?			recommended	
	(a)	Hypoid gear	(b) rack and pinion		(d)	The drive is recommended	
	(b)	Worm gear	(d) none of the above			depending upon the torque	
5.	What	type of gears	is used to convert			transmitted	
	rotati	rotation into linear motion?			Due t	o slip of the belt, the velocity ratio of	
	(a)	(a) Rack and pinion gears			the b	elt drive	
	(b)	Bevel gears			(a)	Decreases	
	(c)	Spur gear			(b)	Increases	
	(d)	None of the	above		(c)	Do not change	
6.	The v	elocity ratio of	two pulleys connected		(d)	None of the above	
	by an	open belt or c	losed belt is	10.	Wher	n two pulleys of different diameters	
	(a)	Directly pro	portional to their		are co	onnected by means of an open belt	
		diameters			drive	, then the angle of contact taken into	
	(b)	Inversely pr	oportional to their		consi	deration should be of the	
		diameters			(a)	Larger pulley	
	(c)	Directly pro	portional to the square		(b)	Smaller pulley	
		of their diar	neters		(c)	Average of the two pulleys	
	(d)	Inversely pr	oportional to the square		(d)	None of the above	
		of their diar	neters	11.	Trans	mitting power without slip, which one	
					of the	e following drives is used?	

	(a)	Belt drive		nose	circle as 15mm and 10 mm
	(b)	Rope drive		respe	ctively distance between them is 8
	(c)	Cone pulleys		mm. I	Determine lift made by the follower.
	(d)	Chain drive		(a)	5mm
12.	The d	istance between the hinge centre of		(b)	12.5mm
	link a	nd the corresponding hinge centre of		(c)	3 mm
	the a	djacent link of a chain is called		(d)	17mm
	(a)	Pitch of the chain	18.	The si	ize of a cam depends upon
	(b)	Bush roller chain		(a)	Base circle
	(c)	Block chain		(b)	Pitch circle
	(d)	None of the above		(c)	Prime circle
13.	Wher	n the drive gear is larger than driven		(d)	Pitch curve
	gear t	then the output is	19.	The a	ngle between the direction of the
	(a)	More speed		follow	ver motion and a normal to the pitch
	(b)	More torque		curve	is called
	(c)	Less speed		(a)	Pitch angle
	(d)	None of the above		(b)	Prime angle
14.	Chain	drives use		(c)	Base angle
	(a)	Spur gears		(d)	Pressure angle
	(b)	Sprockets	20.	The c	am follower generally used in
	(c)	Worm gears		auton	nobiles engine is
	(d)	Idler gears		(a)	knife edge follower
15.	Rotar	y motion is		(b)	Flat faced follower
	(a)	Back and forth motion in a straight		(c)	Spiracle faced follower
		line		(d)	Roller follower
	(b)	Back and forth motion in a circle	21.	Low a	and moderate speed engines, the cam
	(c)	Movement in a straight line		follow	ver should movie with
	(d)	Motion in a circle		(a)	Uniform velocity
16.	Which	n motion of the following is best for		(b)	Simple harmonic motion
	high s	speed cams?		(c)	Uniform acceleration and
	(a)	SHM follower motion			retardation
	(b)	Uniform acceleration and		(d)	Cycloidal motion
		retardation of follower motion	22.	Which	n type of motion is a pendulum in a
	(c)	Cycloidal motion follower		clock	?
	(d)	All of the above		(a)	Oscillating motion
17.	A can	n operating roller follower has the		(b)	Linear motion
	follov	ving dimension, radius of the base and		(c)	Rotary motion

	(d)	Reciprocating motion		(c)	30/N	
23.	An ope	n drive belt will cause two pulleys to		(d)	40/N	
	turn in the same direction. what effect will		28.	Which one of the following in metric helical		
	a cross	ed driving belt have on two pulleys?		gear pr	oportion for indexing movement?	
	(a)	A crossed driving belt will cause		(a)	0.157/NDP	
		two pulleys to turn in opposite		(b)	1.157/NDP	
		direction		(c)	2.157/NDP	
	(b)	A crossed driving belt will cause		(d)	3.157/NDP	
		two pulleys to turn in the same	29.	Which	one of the following is English helical	
		direction		gear pr	roportion for clearance (C)?	
	(c)	A crossed driving belt will cause		(a)	Addendum angle	
		two pulleys to cancel each other		(b)	Dedendum angle	
		out		(c)	Pitch cone angle	
	(d)	None of the above		(d)	Shaft angle	
24.	A num	ber of gears connected together are				
	called_					
	(a)	Gear system	30.	It is the	e angle between the pitch cone	
	(b)	Gear tram		genera	tor and the root surface of the tooth	
	(c)	Gear train		space.	For which bevel gear element is the	
	(d)	Worm gear		definiti	ion?	
25.	Which	one of the following hits NOT the		(a)	Street tooth bevel gears	
	advant	age of helical gears?		(b)	Spiral bevel gears	
	(a)	Smooth operation		(c)	Hypoid gears	
	(b)	Lesser load carrying capacity		(d)	None of the above	
	(c)	Greater load carrying capacity	31.	Which	one of the following types of bevel	
	(d)	Noiseless running		gears is	s mainly used in automobiles drive?	
26.	To cut	38 teeth on a helical gear having an		(a)	Addendum	
	angle c	of 45 degree, which cotton number		(b)	Dedendum	
	should	be used?		(c)	Whole depth	
	(a)	πΜ		(d)	Tooth thickness	
	(b)	NM	32.	'2.25m	' is given as proposition for straight	
	(c)	PDN		teeth r	ack. For which element is this the	
	(d)	<u>NM</u>		propor	tion?	
27.	Which	one of the following is the metric		(a)	Addendum	
	helical	gear proportion for real module (M)?		(b)	Dedendum	
	(a)	10/N		(c)	Whole depth	
	(b)	20/N		(d)	Tooth thickness	

33. To cur straight teeth rack if module (m)=3 38. If, in a belt drive, the sen					e, the sense o	nse of rotation of both		
	and number of teeth =20, the length of			the pulleys is the same, the drive used is				
	rack wi	II be	A 10 10					
	(a)	75mm		-	open belt d			
	(b)	135mm			Cross belt dr			
	(c)	94.2mm		_	Open or cros			
	(d)	188mm			·	en not cross b		
34.	'mZ2" i	s given as proportion of v	worm			_	tatements is	NOT
	wheel.	For which element is this	s the	true ab	out cross be	It drive?		
	propor	tion?		a)	Belts wear	very fast		
	(a)	Addendum		b)	Pulleys rota	ate in opposit	e directions	
	(b)	Dedendum		c)	Belt angle o	on both the p	ulleys is equa	l
	(c)	Pitch diameter		d)	Used for tra	ansmission of	f speed at higl	h
	(d)	Throat diameter			power			
				40. In k	oelt drive, pu	lleys are mad	de a slightly co	onvex
		pelt drive system has two		surface	e (rather than	n flat). This co	onvex surface	is
		iven shaft and one pulley	on driving	called				
shaft?	*							
a)	Multipl	e belt drive		a)	Peak	b) spot		c)
b)	Cone pu	lley drive			crown	d) hump)	
c)	Fast and	loose pulley drive		41. Which one of the following statements is NOT true about timing belts?				
d)		f the above						
·				a)	They are to	othed belts.		
				b)	·		hafts remain	
				,	synchronize			
				c)	There is no			
				d)		too much no	ise.	
36. Wh	ich of th	e following are used to r	un chains? *	,	•		pelt materials	can
	a) Tru	ınions				d wet condit		
	b) Coup					a 1100 00 11a10		
	c) Spro			a)	Leather b) E	Balata	c) Rubber	d)
	d) Splir				Cotton			
37 In a		the angle between the s	ide is	43. In a	belt drive, t	he outer surf	face of the pu	lley is
37.111	v beit	the diffic between the s	ide is	made i	n convex for	m. Which on	e of the follov	ving
••••••	•			statem	ents is NOT t	true about th	is convex surf	face?
a)	10°	b) 20°	c)	a)	It causes ev	cessive belt	wear	
	30°	d) 40°		aj	it causes ex	CCSSIVE DEIL	vvcui.	

•	It prevents the belt from	m slipping from the		ich of the follow	_	is used to prov	/ide
	It keeps the belt in the	centre when it is in		eyor chains		r transmitting	
	movement.		-	c) Hoisting chai		d) Hauling chai	ns
	It is called crown.		ciidiiis	cy riolotting cria		a, rrauming errar	
۵,	re is called a crown.		50. Wh	ich of the follow	ing chains	s are used for	
			transm	ission of power,	when the	distance betw	veen
44. Whi	ch of the following state	ements are false for	the cen	iters of shafts is	short?		
belt driv	ves?		a) Chair	n with oval links	b) Closed	d ioint chain	
1) Belt d	Irive is used in application	ons having constant	<i>a, c</i>	c) Detachable o		<i>a</i> jo o	
speed d	rive		d) Bloc				
2) Belt d	Irives can be used at ex	tremely high speeds	u, 2.00.				
3) Belt d	Irives have low power t	ransmitting capacity	51. Wh	ich flat belt driv	e system l	has two pulleys	S
4)Belt di	rives need continuous l	ubrication	mounte	ed on driven sha	ift and on	e pulley on driv	ving
a. 1 and	2	b. 1, 2 and 3	shaft? ³ c. 2	* 2, 3 and 4			
d. 1, 2 a	nd 4		b)	Multiple belt d	rive l	b) Cone pulley	drive
45 M/ba	at is the number of usin	a staal shains?		c) Fas	st and loo	se pulley drive	
	at is the purpose of usin oid slipping b) To avoid	friction c) To avoid accelerate	ted moti	None of the ab on d) To avoid joich of the follow	erks	sed to run chai	ns? *
	toothed wheels in chair	n drives are known		b) unions	b) Coupl	ings	c)
as	_			Sprockets	(d) Splines	
a) Sproc	kets b) Sprockers	c) V-belt d)	53. In a	'V' belt the ang	le betwee	en the side is	
V- chain							
47. Whi	ch of the following is tru	ue regarding chain	b)	10°	b) 20°		
drives?				c) 30°	d) 40°		
a) The cl	hain drives may be used	d when the distance	54.If, in	a belt drive, the	e sense of	rotation of bo	th
betweer	n the shafts is less.		the pul	leys is the same	, the drive	used is	
b) The p	roduction cost of chain	s is relatively low.	h)	open belt drive	h) cross	halt driva	
c) The cl	hain drive needs low ma	aintenance.	U)	•		belt drive	
d) The c	hain drive has no veloci	ity fluctuations.	e)	neither open n			
48. The	diameter of the circle o	on which the hinge	55. Wh	ich one of the fo	ollowing st	tatements is N	ОТ
centers	of the chain lie is know	n as	true ab	out cross belt d	rive?		
a) Pitch	b) Pitch circle diameter	c) Sprocket length	e)	Belts wear very	/ fast		
d) Sproc	sket diameter.		f) g) h)	Pulleys rotate i Belt angle on b Used for transr power	oth the p	ulleys is equal	

56. In belt drive, pulleys are surface (rather than flat). T	- ·	b) The production cost	of chains is relatively low.				
called		•	no velocity fluctuations.				
	spot c)	a,					
•	hump	64. The diameter of the	e circle on which the hinge				
57. Which one of the follow	·	centers of the chain lie	is known as				
	ville statements is NOT	a) Pitch b) Pitcl	h circle diameter c)				
true about timing belts?	a de a	Sprocket length					
e) They are toothed b		d) Sprocket diameter.					
f) The driving and dri synchronized.	ven shafts remain	, ,	ving chain is used to provide				
g) There is no slippag	e.						
h) They make too mu		elevation continuously					
58. Which one of the follow		a) Conveyor chains	b) Power				
withstand acidic and wet co		transmitting chains	c) Hoisting chains				
b) Leather b) Balata	c) Rubber	d) Hauling chains					
	Cotton	66 Which of the follow	ving chains are used for				
59. In a belt drive, the oute			when the distance between				
		the centers of shafts is					
made in convex form. Which	•	the tenters of sharts is	SHOLL:				
statements is NOT true abo		a) Chain with oval links	b) Closed joint chain				
e) It causes excessive		c) Detachable o	chain				
	t from slipping from the	d) Block chain					
edge of the pulley.		,					
	the centre when it is in	67.The centrifugal tens	sion in belts				
movement.		a) increases power trar	nsmitted				
h) It is called crown.		b) decreases power transmitted					
60. Which of the following	g statements are false for	c) have no effect on the power transmitted					
belt drives?		d) increases power tran	d) increases power transmitted up to a certain				
1. Belt drive is used in appl	ications having constant	speed and then decrea	•				
speed drive		68 n a cone nulley if th	ne sum of radii of the nulleys				
2. Belt drives can be used a		68.n a cone pulley, if the sum of radii of the pulleys on the driving and driven shafts is constant, then					
3. Belt drives have low pow		a) open belt drive is recommended					
4. Belt drives need continu	ous lubrication	b) crossed belt drive is					
a. 1 and 2	b. 1, 2 and 3						
d. 1, 2 and 4	5. <u>-</u> , <u>-</u> 44 5		and crossed belt drive is				
u. 1, 2 unu 1		recommended					
61. What is the purpose of	using steel chains?		ended depending upon the				
a) To avoid slipping	b) To avoid friction c) To avo	id accelerated motion d) -	To avoid jerks				
		69 When two nulleys o	of different diameters are				
			f an open belt, the angle of				
62) The teethed wheels in	ahain drivas ara knavya		pulley must be taken into				
62) The toothed wheels in	chain drives are known	consideration.	pulley must be taken into				
as	1.) 6		h) la				
a) Sprockets	b) Sprockers	a) Smaller	b) larger c)				
c) V-belt	d) V- chain	medium	d) none of the mentioned				
63. Which of the following	is true regarding chain	70. The nower transmi	tted by a belt is maximum				
drives?	ac regarding citatii	when the maximum te	•				
a) The chain drives may be	used when the distance	of centrifu					
between the shafts is less.	used when the distalle	or centillu	gai terision.				
between the shalls is 1855.		a) one-third	b) two-third				

- c) double d) three times
- 71) The advantages of the V-belt drive over flat belt drive are
- a) The V-belt drive gives compactness due to the small distance between the centers of pulleys.
- b) The drive is positive, because the slip between the belt and the pulley groove is negligible.
- c) Since the V-belts are made endless and there is no joint trouble, therefore the drive is smooth.
- d) all of the mentioned
- 72. The disadvantages of the V-belt drive over flat belt drive are
- a) The V-belt drive cannot be used with large centre distances.
- b) The V-belts are not so durable as flat belts.
- c) The construction of pulleys for V-belts is more complicated than pulleys for flat belts.
- d) all of the mentioned
- 73. The advantages of the V-belt drive over flat belt drive are
- a) It provides longer life, 3 to 5 years.
- b) It can be easily installed and removed.
- c) The operation of the belt and pulley is quiet.
- d) all of the mentioned
- 74. The disadvantages of the V-belt drive over flat belt drive are
- a) Since the V-belts are subjected to certain amount of creep, therefore these are not suitable for
- 78. Why the small steel wedge is tapped under the machine in lifting operation?
 - A. To prevent vibration

- B. To reduce the weight
- C. To accept the crowbar
- D. To balance the machine
- 79. How to adjust the tension of belt between two fixed pulleys?
 - A. By sliding the pulley

- B. By fixing idler pulley
- C. By adjusting the length of belt
- D. By adjusting the screw of pulley

80. What is the name of the coupling?



A. Slip coupling

B. Plate coupling

C. Clamp coupling

D. Universal coupling

- constant speed application such as synchronous machines, and timing devices.
- b) The belt life is greatly influenced with temperature changes, improper belt tension and mismatching of belt lengths.
- c) The centrifugal tension prevents the use of V-belts at speeds below 5 m/s and above 50m/s.
- d) all of the mentioned
- 75. Which one of the following is a positive drive?
- a) Crossed flat belt drive
- b) Rope drive
- c) V-belt drive
- d) Chain drive
- 76. The chain drive transmits _____ power as compared to belt drive.
- a) more
- b) less
- c) equald)
- none of the mentioned
- 77. Which type of gear drive changes rotary movement to linear movement?
- A. Hypoid
- B. Herring bone
- C. Rack and pinion.
- D. Helical gear

81.	Why the face of pulley is "Crowned" in power transmission?				
	A.	Increase the tension	В.	Decrease the tension	
	C.	Keep the belt centralized	D.	Allow the pulley free rotation	
82.	Which a	graphical representation of the activities	perform	ned during manufacturing?	
	A.	Job card	В.	Process chart	
	C.	Batch record form	D.	Batch processing form	
83.	What	is the name of the part marked X in fast	and loos	e pulley assembly?	
	A.	Fast pulley	В.	Loose pulley	
	C.	Crown pulley	D.	Flat drive pulley	
84.	Which	coupling is used in the place for slight re	ative mo	ovement is required?	
	A.	Chain coupling	В.	Flange coupling	
	C.	Flexible coupling	D.	Muff coupling	
85.	Which i	is the imaginary circle on two matting ge	ars?		
	A.	Root circle	В.	Pitch circle	
	C.	Base circle	D.	Addendum circle	
86.	What is	the name of radial distance between th	e pitch c	ircle and root circle in gears?	
	A.	Land	В.	Addendum	
	C.	Dedendum	D.	Working depth	
87.	How to	improve the gripping property of the dr	ied belt?		
	A.	Jockey pulley	В.	Apply powdered resin	
	C.	Reduce the distance between pulleys	D.	Increase the distance between	
				pulleys	
88.	What is	the name of the part marked as 'x' of go	ear?		
		*I			
	A.	Flank	В.	Addendum	
	C.	Face width	D.	Root circle	
89.	Which i	is the following designed to operate at 9	0 degree	es.	

Mitre gear В. Bevel gear A. C. Hypoid gear D. Worm shaft and worm gear 90. What is the name of the coupling? Slip coupling В. Plate coupling A. C. Clamp coupling D. Universal coupling 91. Which ore is extraction of aluminium? A. **Pyrites** В. Galena C. **Blends** D. Bauxite 92. What is the part marked as 'x' A. Fast pulley В. Crown pulley C. Loose pulley D. Flat drive pulley 93. What is the name for elements of gear marked X? Flank В. Root circle A. C. Face width Addendum D. 94. What is the purpose of jockey pulley in belt drive? A. To maintain the tension To decrease the tension В. C. Keep the belt centralized D. Allow free rotation of pulley 95. Which power drive will transmit motion at constant velocity without creep and slippage? A. Rope drive B. Gear drive C. Pulley drive D. Chain drive 96. Which coupling provides rigid connection between two shafts? A. Clamp coupling Fast coupling В. C. Safety coupling D. Universal coupling

97.	Which pulley can transmit the power to shaft different heights and at varying distance?					
	A.	Flat pulleys	B.	Rope pulleys		
	C.	V groove pulleys	D.	Fast and loose pulleys		
98.	What is	s the name of pulley?				
	A.	Step pulley	В.	Flat pulley		
	C.	V groove pulley	D.	Fast and loose pulley		
99.	Which	gear run more silently?				
	A.	Spur gear	B.	Mitre gear		
	C.	Bevel gear	D.	Helical gear		
100.	Which size of		atch nui	mber, date of allocation, products identify and		
	A.	Processing chart	B.	Job card		
	C.	Operation flowchart	D.	Batch processing record		
101.	What is	s the name the of gear mechanism?				
	O STATE OF THE PARTY OF THE PAR					
	A.	Mitre gear	В.	Bevel gear		
	C.	Rack and pinion	D.	Worm and worm gear		
102	Which	coupling will have disengaging provision	?			
	A.	Clamp coupling	B.	Slip type coupling		
	C.	Universal coupling	D.	Plate coupling		
103.	Which	drive is used for long distance and larger	amount	t of power transmission?		
	A.	Belt drive	B.	Gear drive		
	C.	Rope drive	D.	Chain drive		
104.	What is	s the marked as 'X' in gear?				
<i>y</i>						
	A.	Root circle	В.	Base circle		

Outside circle

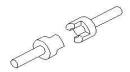
D.

C.

Pitch circle

105.	Which gear is symmetrical to each other and transmit motion at right angle?					
	A.	Spur gear	В.	Mitre gear		
	C.	Helical gear	D.	Hypoid gear		
106.	What i	s marked as 'X' in gear?				
	A.	Flank	В.	Top land		
	C.	Fillet	D.	Face		
107.	How th	ne shifting of belt is enabled from fast to	loose pu	ılley?		
	A.	By crowned face of pulley	В.	By sliding the loose pulley		
	C.	By adjusting the tension of belt	D.	By belt dressing		
108	Where	helical gears are used?				
	A.	Lathe machine	В.	Drilling machine		
	C.	Grinding machine	D.	Automobile vehicles		
109.	Where	universal coupling used?				
	A.	Textiles mills	В.	Large angle drive		
	C.	Automobile vehicles	D.	Engineering machines		
110.	What i	s the element of gear marked as 'X'?				
	A.	Pitch line	В.	Face width		
	C.	Addendum circle	D.	Dedendum circle		
111.	Which	type of drive is used for shortest distanc	e and fo	r large amount of power transmission?		
	A.	Belt drives	В.	Gear drive		
	C.	Rope drives	D.	Chain drives		
112.	What i	s the name of gear?				
BONNEY CONTRACTOR	Daniel Connection					
	A.	Spur gear	В.	Mitre gear		
	C.	Bevel gear	D.	Hypoid gear		

113. What is the name of the clutch?



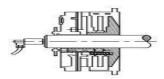
A. Cone clutch

B. Single plate clutch

C. Air clutch

D. Dog clutch

114. What is the name of clutch?



A. Air clutch

B. Multiplate

C. Cone clutch

D. Over riding clutch

115. What is the name of clutch?

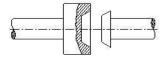


A. Air clutch

B. Cone clutch

C. Centrifugal clutch

- D. Overriding clutch
- 116. What is the name of the clutch?

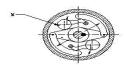


A. Dog clutch

B. Cone clutch

C. Air clutch

- D. Centrifugal clutch
- 117. What is the name of the part marked as 'X'?



A. Inner piece

B. Outer piece

C. Rubbing surface

- D. Centrifugal weight
- 118. Shifting of power machine from one place to another place is known as _
 - A. Power transmission

B. Electric power

C. Working system

D. All of these

119.	Pulley fitted on motor shaft is called			pulley ?			
	A.	Wood pulley	В.	Time pulley			
	C.	Split pulley	D.	All of these			
120	Runni	ng of many machines by one motor in the	e worksh	nop is called	_drive?		
	A.	Single	В.	Double			
	C.	Group	D.				
121.		ze of plate belt is measured from its widt					
	Α.	Thickness	В.	Length			
122.		Weight d belt used in pulley ?	D.	All of these			
	A.	Split	B.	Two piece			
		Half round groove	D.	Round pulley			
123.	In ver	y long distance drive is used ?					
	A.	Rope drive	B.	Belt drive			
	C.	Gear drive	D.	Chain drive			
124.		pulley has more?	_				
	A.	Width of face	B.	Crowning of pulley			
	C.	Tension of belt	D.	All of these			
125.	The fa	ice pulley is in shape ?					
	A.	Convex	B.	Concave			
	C.	Taper	D.	Elliptically			
126.	Ball in ball bearing produces motion speed by?						
	A.	Power	B.	Friction			
	C.	Puss	D.	All of these			
127.	Line s	hift is also called?					
	A.	Short shaft	B.	Sub shaft			
	C.	Main shaft	D.	All of these			
128.	Spline	is used where is more ?					
	A.	Shaft	В.	Cotter pin			
	C.	Split pin	D.	Serrited			
129.	To cor	nnect and disconnect two shafts frequent	ly	coupling is used ?			
	A.	Loose	B.	Fast			
	C.	Fixed	D.	All of these			
130	In sco	oter coupling is used ?					
	A.	Safety	B.	Flexible			
	C.	Muff	D.	Friction plate			
131.	Powei	r is transmitted from one shaft to anothe	r shaft b	y belt on	?		

	A.	Gear	В.	Chain
	C.	Pulley	D.	All of these
132.	Gear	drive is a kind of drive?		
	A.	Negative	В.	Positive
	C.	Neutral	D.	All of these
133.	Worn	n gear is used with?		
	A.	Bevel	В.	Metre
	C.	Worm	D.	Helical
134.	Oldhe	ems is a coupling?		
	A.	Safety	В.	Flexible
	C.	Muff	D.	Claw
135.	Pitch	scale of gear iscircle?		
	A.	Major	В.	Minor
	C.	Effective	D.	Periphery
136.		system of power transmission ther	e is no sli	pness?
	A.	By rope	В.	By chain
	C.	By gear	D.	By belt
137.	Chain	drive is used in?		
	Α	. Increase power	В.	Chain link
	C.	Misalignment	D.	Coupling
138.		is used to protect from slipping i	n place o	f belt?
	A.	Step pulley	В.	"V" groove pulley
	C.	Drum pulley	D.	Jockey pulley
139	Gear	of set used in lathe machines is called _	?	
	A.	Intermediate gear	В.	Gear train
	C.	Bevel gear	D.	Spur gear
140.		method is used for power transmiss	ion in cot	ton mill?
	A.	Cam	В.	Friction
	C.	Rope	D.	Clutch
141.	Whic	h power transmission has slippage?		
	A.	In gears	В.	In chains

	C.	In sprockets	D.	In belts					
142.	At wh	at angle groove is made on "V" groove p	oulley	?					
	A.	60°	В.	45°					
	C.	40°	D.	30°					
143	What	What is speed ratio of teeth in big wheel is 50 and small wheel 25?							
	A.	1/2	В.	1250					
	C.	2	D.	None of these					
144.	How r	much technical capacity chain and sproc	ket gives	?					
	A.	50%	В.	70%					
	C.	80%	D.	98%					
145.	Which	n device is used to give support to length	ny shaft _	?					
	A.	Gear	В.	Bearing					
	C.	Clutch	D.	Capacity					
146.	Third gear is used to rotate two gears in one direction and that is called?								
	A.	Idler gear	В.	Bevel gear					
	C.	Rake and pinion	D.	Spur gear					
147.	Pulley	Pulley fitted on motor shaft or spindle is called Pulley.							
	(a)	Driver	(b)	Driven					
	(c)	Jockey	(d)	All of these					
148.	Pulley rotates in belt drive by								
	(a)	Friction	(b)	Power					
	(c)	Drive pulley	(d)	Driven pulley					
149.	Two idler pulleys is inbelt drive.								
	(a)	Acute angle	(b)	Obtuse angle					
	(c)	Right angle	(d)	All of these					
150.	Conve	ex face of pulley is called							
	(a)	Convex shape	(b)	Concave shape					
	(c)	Crowning	(d)	Round shape					
151.	The	pulley is used to drive a ma	chine on	different speed.					
	(a)	Jockey	(b)	Step					
	(c)	Split	(d)	Round					

152.	152. "V" belt is available in And internal periphery size.			
	(a)	Split	(b)	Jockey
	(c)	Cross section	(d)	Adjustable
153.	From c	rowning belt andis in cent	re.	
	(a)	Rope	(b)	Belt
	(c)	Chain	(d)	Pulley
154.	In half	muff coupling the diameter and length o	f muff is	equal to
	(a)	Shaft	(b)	Cotter pin
	(c)	Split pin	(d)	Seritted
155.	Male co	one on one shaft and on secor	nd shaft	is fitted in cone friction clutch.
	(a)	Female cone	(b)	Unnecessary
	(c)	All cone	(d)	None of these
156.	Groove	s are made on the face of aC	Clutch.	
	(a)	Flexible	(b)	Safety
	(c)	Muff	(d)	Claw
157.	Circula	r pitch of gear is measured on I	n round	
	(a)	Dia circle	(b)	Pitch circle
	(c)	Major circle	(d)	Minor circle
158.		Coupling has two flanges having hol	es in it.	
	(a)	Flanged	(b)	Washer
	(c)	Cotter	(d)	Dome
159.	Flexible	e coupling can bear		
	(a)	Power	(b)	Friction
	(c)	Strokes	(d)	All of these
160.	Pressur	e angle of gear teeth is normally		
	(a)	14 ½"	(b)	10"
	(c)	12 ½"	(d)	13 ½"
161.		is to be used where machine has to	switch	on or off frequently.
	(a)	Drum pulley	(b)	Jockey pulley
	(c)	Loose and fast pulley	(d)	Step pulley

162.	is used for power transmission at 90° angle.					
	(a)	Bevel gear		(b)	Helical gear	
	(c)	Spur gear		(d)	Rake and pinion	
163.	Gear us	sed in sliding machines				
	(a)	Bevel gear		(b)	Rake and pinion	
	(c)	Helical gear		(d)	Spur gear	
164.	Gear is	used in Indexim Instrument				
	(a)	Helical gear		(b)	Spur gear	
	(C)	Worm gear		(d)	Worm wheel gear	
165.	Followe	er is a				
(a)	Moving	part	(b)	Feeder		
(c)	Gear tr	ain	(d)	Idler ge	ar	
166.	Which	part of gear having height of tee	th on pit	ch circu	lar of gear	
(a)	Module	2	(b)	Addend	dum	
(c)	Dedend	dum	(d)	Chordal pitch		
167.		method is used for power	r transm	ission in	cotton mill.	
(a)	Cam		(b)	Friction	1	
(c)	Rope		(d)	Clutch		
168.	When t	he applied loading is always in o	ne direc	tion the	type of thread preferred is	
	(a)	Acme		(B)	Square	
	(c)	BSW		(D)	Buttress	
169.	Which 1	type of thread is considered stro	ng and f	requent	ly used for power transmission?	
A.	BSW		В.	BSF		
C.	Acme		D.	Buttres	S	
179.	If it is reused?	equired to bring the driven shaft	to spen	d in a gr	adual manner, which type of device will be	
A.	Couplin	ng	В.	Clutch		
C.	Gear		D.	Belt dri	ve	
171.	If in a b	pelt drive the sense of rotation o	f both th	ne pulley	s is the same, the drive used is	
A.	open b	elt drive	В.	cross b	elt drive	
C	Both A	& B	D.	None o	f these	

172	Which one of the following statements is NOT true about cross belt drive?					
A.	Pulley rotate in opposite directions					
	B. Belt angle on both the pulleys	is equa				
	C. Belt wear very fast					
	D. Used for transmission of spee	d at high	n power			
173.	In belt drive, pulleys are made a slight	ly conve	ex surface (rather than flat). This convex surface is called			
A.	Hump	В.	Peak			
C.	Crown	D.	Spot			
174.	Which one of the following statement	s is not	true about timing belts?			
A.	they make too much noise.					
	B. They are toothed belts.					
C.	There is no slippage. D. The driving	and driv	en shafts remain synchronized.			
175.	Which one of the following belt mater	ials can	withstand acidic and wet conditions?			
a.	leather	b.	balata			
c.	cotton	d.	rubber			
176.	In a belt drive, the outer surface of the statements is not true about this conv		is made in convex form. Which one of the following ce?			
a.	It is called crown					
b.	It keep the belt in the centre when it i	s in mov	rement.			
c.	it causes excessive belt wear					
d.	It prevents the belt from slipping from	the edg	ge of the pulley.			
177.	Fast and loose pulley drive configuration	on is use	ed when			
a.	distance between driving and drive sh	aft is to	o large			
b.	velocity ratio is too large					
c.	it required to start or stop driven shaf	t withou	t disturbing driving shaft			
d.	low noise is required					
178	An example of use of stepped pulley drive is in					
a.	Lathe	b.	Milling machine			
c.	Shaper	d.	Planer			
179.	Which one of the following statement	s is not	true about coupling?			
a.	it connects two in-line shaft					
b.	it can be rigid or flexible					

d.	it can engage and disengage driving and driven shafts as a normal operation				
180.	It is a long cylindrical coupling bored and keyed to fit over both shafts. It is called				
a.	rigid co	oupling	b.	Muff c	oupling
c.	spider	coupling	d.	fluid co	oupling
181.	Which	one of the following types of co	uplings <u>ရ</u>	gives a so	oft start?
a.	rigid c	oupling	b.	muff co	oupling
c.	spider	coupling	d.	fluid co	oupling
182.	a coup	ling which has a yoke on each sh	aft is ca	lled	
a.	univer	sal couple	b.	Muff c	oupling
b.	rigid co	oupling	d.	Spider	coupling
183.	Which	type of coupling is used in the p	ropeller	shaft of	a vehicle?
a.	spider	coupling	b.	Univer	sal couple
c.	rigid co	oupling	d.	Fluid c	oupling
184.	Norma called	ılly a gear meshes with another g	gear. But	gear ca	n also mesh with a non-rotating toothed part
a.	rack		b.	worm	
c.	sheave	2	d.	yoke	
185,	When	the situation is such that power	has to b	e transm	nitted at an angle, the gear used are
a.	spur ge	ear	b.	helical	gears
c.	bevel g	gear	d.	herring	gbone gear
186.	Herrin	gbone gears resemble two		gears	that have been placed side by side
	(a)	spur		(b)	bevel
	(c)	helical		(d)	face
187.	The su	n and planet gearing used in diff	erentials	s is of th	e type
	(a)	worm and worm wheel		(b)	rack and pinion
(C)	hypoid	I	(d)	epicycl	lic
188.	With w	vorm-and-gear sets very high gea	ar ratio c	an be ol	otained. It can be as high as
	(a)	10:1		(b)	50:1
	(c)	100:1		(d)	500:1
189.		gears resemble spiral b	evel gea	ırs excep	ot that the shaft axes do not intersect
	(a)	Hypoid		(b)	Worm

c.

it drives driving and driven shafts at same speed

	(c)	Epicyclic	(d)	Face
190.	Which	of the following are used to run chains?		
	(a)	Splines	(b)	Sprockets
	(c)	Couplings	(d)	Trunions
191.	In a pai	ir of gears the amount of clearance betw	een mat	ed gear teeth is called
	(a)	addendum	(b)	dedendum
	(c)	flank	(d)	backlash
192.	In a gea	ar, addendum+ dedendum is equal to		
	(a)	whole depth	(b)	working depth
	(c)	nominal depth	(d)	standard depth
193.	The rac	dial distance between the pitch diameter	and the	outside diameter of a gear is called
	(a)	addendum	(b)	dedendum
	(c)	addendum + dedendum	(d)	addendum - dedendum
194. 195.	A. C.	curate spacing of teeth in a gear blank re Dividing head A differential mechanism gears can be cut on which type of milling	B. D.	An index plate Universal table
	A.	Plain	В.	Horizontal
196.	C. Which	Universal clutch can be engaged progressively whe	D. en one o	Drum type r both the elements are rotating?
107	A. C.	Single plate clutch Centrifugal clutch	B. D.	Cone clutch Dog clutch
197.	A. C.	dial distance between the pitch circle and Dedendum Working depth of the teeth	B. D.	Addendum Whole depth of the teeth
198.		s the function of a dog clutch?		
	A. B. C. D.	It can be engaged progressively when o It can only be engaged when two eleme When the speed is reduced the clutch o Contact force is produced by springs	ents of tl	ne clutch are stationary
199.	In which A. C.	th clutch, the pressure plate is used? Multiple plate clutch Over riding clutch	B. D.	Dog clutch Centrifugal clutch
200.	Determ 75 Nm.	nine power rating of an electric motor if i . Assume reduction ratio?	t runs at	: 1440 r.p.m. and line shaft transmits torque of
	A. C.	10.36 kW 7.068 kW	B. D.	11.3 kW 9.12 kW
201.	-	le gear trains the direction of rotation of gear only if?	driven	gear is opposite to the direction of rotation of
	A.	Even number of idler gears are present	В.	Odd number of idler gears are present

Any number of idler gears are present D.

C.

None of these

202.	Why is an idler gear used in gear trains?			
203.	A. B. C. D. Deterr	•		riving and driven shaft rque transmitted on gear shaft is 20 Nm consider
	A. C.	8 Nm 80 Nm	B. D.	5 Nm 16 Nm
'204.	Which	of the following statements is/are true f	or gear	drives ?
205.	A. B. C. D. Which	They can be used for long center distarthey are used to transmit power betwee They cannot be used for high reduction All of these gears are used to connect two intersections.	een non- ratios	
			_	
	A. C.	Crossed helical gear Bevel gears	B. D.	Worm and worm wheel All of these
206.	What i	s meant by gear ratio ?		
207.	A. B. C. D. Transn	The ratio of pinion speed and gear speed. The ratio of number of teeth on pinion. Both (a) and (b) None of these. nission angle is the angle between.	and nu	mber of teeth on gear _?
	A.	Input link and coupler	В.	Input link and fixed link
	C.	Output link and coupler	D.	Output link and fixed link
208.		e of a gear is?		
	A.	D/T	В.	T/D
	C.	, 2D/T	D.	2T/D
209.		bevel gears connect two shafts whose ax the bevel gears has pitch angle of 90°, the		sect at an angle greater than a right angle and are known as?
	A.	Internal bevel gears	B.	Angular bevel gears
	C.	Crown bevel gears	D.	MITRE gears
210.	Where	e a large speed reduction is desired, whic	h type o	f a gear is used ?
	A.	Worm and worm wheel	В.	Helical bone gear
	C.	Hypoid gear	D.	Herringbone gear
211.	Gears	having their teeth element parallel to the	e rotatin	g shafts are known as?
	A.	Worm gear	В.	Spur gear
	C.	Helical gear	D.	Herringbone gear
212.	Clutch	used to transmit less power is	_ ?	
	A.	Plate clutch	В.	Cone clutch
	C.	Dog clutch	D.	Centrifugal clutch
213.	Gear d	rive used to change rotary motion into li	near mo	otion is
	A.	Spur gear drive	В.	Bevel gear drive
	C.	Worm and worm gear drive	D.	Rack and pinion gear drive
214.	Depth	of teeth space below the itch circle in a s	ear is k	

	A.	Dedendum		B.	Addendum			
	C.	Crest		D.	Root			
215.	The siz	e of gear is usually specified by	′	_?				
	A.	Pressure angle		В.	Circular pitch			
	C.	Diametrical pitch		D.	PCD			
216.	Radial	distance of a gear tooth from t	he pitch ci	ircle to t	he top of the tooth is known ?			
	A.	Addendum		В.	Dedendum			
	C.	Module		D.	Pitch			
217	Pitch c	ircle of gear & height of gear to	oth is call	ed	?			
	A.	Addendum		В.	Dedendum			
	C.	Centre distance		D.	Face			
218.	Which	gear arrangement is used to ch	nange the	circular	motion of horizontal to vertical without change			
	in spe	ed ratio?						
	A.	Two spur gear		В.	Two helical gear			
	C.	Two bevel gear		D.	Worm and worm gear			
219.	A gear	wheel has 36 teeth and 3 mm	module, it	s pitch c	diameter is?			
	A.	12 mm		В.	75 mm			
	C.	80 mm		D.	108 mm			
220.	The m	ain purpose of using worm and	worm wh	eel drive	es in machines and their accessories is to?			
A.	Transn	nit large torque						
	B.	Provide large speed reduction	n from wo	rm shaft	to worm wheel			
C.	Transn	nit higher speeds						
	D.	provide large speed reduction		rm whee	el to worm shaft			
221.		is the name of part marked 'X' \S	_					
Α.	Face w		В.	Tooth				
C. 222.	Adder	is the name of gear drive?	D.	Deden	aum			
222. A.	MITRE	_	В.	Bevel g	ioar			
л. В.	Helical	_	D.	Hypoid				
223.		•			transmit motion at right angle?			
Α.	Spur g		В.	MITRE				
C.	Helical		D.	Hypoid	_			
224.		ge coupling is used	·	,,				
	a.	For intersecting shafts		b.	For collinear shafts			
	c.	For small shafts rotating at slo	ow speeds	d.	For parallel shafts			
225.	While	While designing a flange coupling, care is taken so that						
	a.	Shaft is the weakest compone	ent	b.	Bolts are the weakest component			
	c.	Key is the weakest compone	nt	d.	The flange is the weakest component			
226.	A busl	A bushed-pin type flange coupling is used						
	a.	For intersecting shafts						
	b.	When the shafts are not in ex	act alignm	nent				
	C.	For small shafts rotating at						
	d.	For parallel shafts slow speed	ls					

227.	A muff	f coupling is			
	a.	Rigid coupling		b.	Flexible coupling
	c.	Shock absorbing coupling		d.	None of the above
228.	In case	e of clamp coupling, power is trai	nsmitted	l by mea	ns of
a.	Frictio	n force	b.	Shear	resistance
	c.	Crushing resistance		d.	None of the above
229.	A pulle	ey rigidly attached to a shaft is ca	ılled a		·
	a.	Loose pulley		b.	Fast pulley
	c.	Stepped pulley		d.	None of them g
230.		are grooved to carry on	e or mo	re ropes	by means of which power is
	transm	nitted to shafts at different heigh	nts and a	t varyin	g distances.
	a.	Stepped pulley		b.	Jockey pulley
	c.	Rope pulley		d.	V-belt pulley
231.	A of mad	is used when the speed on the speed on the speed of the cols, such as lathe, drilling			ft is to be changed very frequently as in the case
	a.	Stepped cone pulley		b.	Split pulleys
	c.	Built up pulleys		d.	C.I belt pulleys
232.	Choos	e the correct statement.			
	a.	A machine can be easily stoppe loose pulleys.	ed or sta	rted wh	enever required by the use of a pair of fast and
	b.	When the driving belt from the	e main s	haft is o	n the fast pulley, the counter-shaft is in motion.
	C.	If the belt is shifted from the farotating.	ast pulle	y on to t	he loose pulley, the counter-shaft will stop
	d.	All are correct			
233.	In rope	e pulleys, the diameter of the pu	lley is ke	pt at lea	asttimes the diameter of the rope.
	a.	5		b.	13
	c.	15		d.	30
234.		transmits power from 6	engine t	o gearbo	ox, gearbox to propeller shafts.
	a.	Gear		b.	Thread
	c.	Pipe joint		d.	Cam
235.	In	teeth are cut parall	el to the	axis of	the shaft.
	a.	Spur gears		b.	Helical gears

236.	The radial distance from pitch circ	cle to the ou	tside diameter is
a.	Dedendum	b.	Addendum
c.	Pitch	d.	None of the above
237.	A circle representing imaginary fr	iction wheel	s is known as
a.	Dedendum circle	b.	Addendum circle
c.	Pitch circle	d.	None
238.	The teeth of spur gears are	to	the axis.
a.	Inclined and parallel	b.	Straight and parallel
c.	Straight and inclined	d.	None of the above
239.	The gear with smaller number of	teeth in a ge	ear train is called
a.	Wheel	b.	Pinion
c.	Rack	d.	None of the above
240.	Gears are used in		
a.	Watches	b.	Machines
c.	Both the above	d.	None
241.	In a gear, addendum + dedendum	n is equal to	
a.	Whole depth	•	Working depth
C.	Nominal depth	d.	Standard depth
242.	•		er and outside diameter of a gear is called
a.	Addendum	b.	Dedendum
C.	Addendum + dedendum	d.	Addendum - dedendum
243.	In a pair of gears the amount of c		
a.	Addendum	b.	Dedendum
C.	Flank	d.	Backlash
244.	In, teeth are cut a	n angle to th	
a.	Spur gears	b.	Helical gears
C.	Double helical		Herringbone gear
245			be transmitted at an angle, the gears used are.
a.	Spur gears	b.	Helical gears
C.	Bevel gears		Herringbone gears
246.	_		gears that have been placed side by side.
a.	Spur	b.	Bevel
C.	Helical	d.	Face
247.	In which type of gear the teeth a		
a.	Spur gear	b.	Helical gear
C.	Bevel gear	d.	Worm gear
248.	In which among the following gea		_
a.	Bevel gearing	b.	Spur gearing
C.	Helical gearing	d.	Worm gearing
249.	Helical gears are used in		5 0 0
a.	Steam turbines	 b.	Watch
C.	Cycle	d.	None of the above
250.	Smooth and noiseless drive is bet		
a.	Spur gear	b.	Spiral gear
C.	Bevel gear	d.	Rack and pinion

d.

Herringbone gear

Double helical

c.

ANSWERS: POWER TRANSMISSION

1. (c) 2.(b) 3.(a) 4.(c) 5.(a) 6.(b) 7.(c) 8.(b) 9.(a) 10.(b) 11.(d) 12.(a)13.(a) 14.(b) 15.(d) 16.(c) 17.(c) 18.(a)19.(d) 20.(c) 21.(b) 22.(a) 23.(a) 24.(c) 25.(b) 26.(b) 27.(c) 28.(d) 29.(a) 30.(b) 31.(c) 32.(c) 33.(c) 34.(d) 35.(c) 36.(c) 37.(a) 38.(a) 39.(d) 40.(c) 41.(d) 42.(b) 43.(a) 44.(d) 45.(a) 46.(a) 47.(b) 48.(a) 49.(a) 50.(d) 51-C, 52-C, 53-A,54-A, 55-D, 56-C, 57-D, 58-B, 59-A, 60-D, 61-A 62-A, 63-B, 64-A, 65-A, 66-D, 67-C, 68-B, 69-A, 70-D, 71-D,72-D,73-D,74-D,75-D,76-A

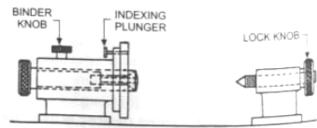
PULLEY,	, COUPLING	,GEAR &	CLUTCHES
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PULLET, COUR	PLING, GEAR & C	CLUTCHES				
77 C	78 C	79- B	80- B	81 - C	82-B	83-D
84- C	85- B	86-C	87-B	88- B	8 9-C	90- D
91-D	92-C	93- B	94- A	95– D	96 A	97- B
98- B	99-D	100- B	101- C	102- C	103- C	104- C
105- B	106- B	107- C	108-D	109- C	110- C	111- B
112- A	113- B	114- A	115- C	116- B	117- D	118- A
119- B	120- C	121- A	122- C	123- A	124- A	125- A
126- B	127- C	128- A	129- A	130- D	131- C	132- B
133- C	134- B	135- C	136- C	137- C	138- B	139- B
140- C	141- D	142- B	143- C	144- D	145- B	146- A
147- D	148- A	149- C	150- C	151- B	152- C	153- D
154- A	155- A	156- D	157- B	158- A	159- C	160- A
161- C	162- B	163- B	164- C	165- A	166- B	167- C
168- D	169- C	170- B	171- A	172- D	173 C	174- A
175- B	176-C	177-C	178-A	179-D	180-B	181-D
182-A	183-B	184-A	185-C	186-C	187-D	188-D
189-A	190-B	191-D	192-A	193-A	194-A	195-C
196-B	197-A	198-B	199-D	200-C	201-A	202-B
203-B	204-B	205-C	206-A	207-C	208-A	209-C
210-A	211-B	212-B	213-D	214-A	215-D	216-A
217-A	218-C	219-D	220-B	221-C	222-D	223-B
224-B	225-C	226-B	227-A	228-A	229-B	230-C
231-A	232-D	233-D	234-A	235A	236-В	237-C
238-A	239-B	240-C	241-A	242-A	243D	244-B
245-C	246-C	247-B	248-D	249-A	250-B	

CLAMPING AND HOLDING DEVICE

1.	A device in which work piece is held and located for specific operation in such a way that it will guide more cutting tools to the same zone of machining is-					
	A)	jig	B)	fixture		
	C)	tail stock	D)	bracket		
2.	Wh	ich one of the bushes used in a drill jig permits t	ool	of different diameter-		
	A)	press fit bush	B)	removable bushes (slip)		
	C)	fixed removable bushes	D)	liner bush		
3.	Ар	pint to point control system is suitable only for o	one d	of the following applications.		
	A)	drilling	B)	turning		
	C)	filling	D)	grinding		
4.	Wh	ich device hold, supports, locates and also guide	the	cutting too for operation?		
	A)	jig	B)	fixture		
	C)	machine vice	D)	chuck		
5.	Jig a	are preferred over fixture in which operation-				
	A)	milling	B)	turning		
	C)	knurling	D)	drilling		
6.	Jig a	are not use				
	A)	milling	B)	reaming		
	C)	tapping	D)	drilling		
7.	The	purpose of jig and fixture is to-				
	A)	increase production rate	В	B) increase machining accuracy		
	C)	facilitate interchangeable manufacturer		D) all of these		
8.	The	Jig, which doesn't have a base but can be set or	ver t	he job to be drilled is called		
	A)	box jig	B)	sandwich jig		
	C)	channel jig	D)	trunnion jig		
9.	Whi	ich among the following is a locator used for loc	atio	n from internal diameter-		
	A)	solid supports	В) pin type locator		
	C)	Vee locator	D)	nest locator		
10.	Wh	ich one of the following jigs consists of drill plate	e, wł	nich rest on the component to be drilled?		
	A)	solid jig	B)	plate jig		

	C)	box jig				D)	tr	unnion jig	
11.	Tole	rance on jig shou	ld be-						
	A)	5% of the tolera	nce on th	e job		В)	10% of the	tolerance on the job
	C)	20 to 50% of the	e toleranc	e on t	the iob	ı	D)	100% of th	e tolerance on the job
12.		ch among the foll							•
12.		_	OWING JIGS	, 13 US	ica for locati				
	A)	Solid jig				B)	ŗ	olate jig	
	C)	Box jig				D)	t	runnion jig	
13.	Whi	ch one of followir	ng is used	to gu	ide the tool	and hol	d tl	ne job in ma:	ss production?
	A.	Gauge		В.	Housing				
	C.	Jig		D.	Fixture				
14.			ovina is u			ah in ra	.la+	ion to the to	al in mass production
14.	A.	Jig.	owing is u	sea t	o ciamp the j	יוו מט	ıaı B.		ol in mass production
	C.	Housing					D.		
		8							
15.	Drill	jig bushings are g	generally r	made	of				
	A.	mild steel				В.	•	Cast iron	
	C.	Cast steel				D.		Tool steel	
16.		Lathe mandre	els can be	term	ed as a				
	A.	jig						В.	Fixture
	C.	Gauge						D.	template
17.	Whi	ch among the foll	owing jigs	s is us	ed of locatio	n for a	bor	e?	
	A.	Plate jig	B. Solid	d jig					
	C.	Post jig D.	Box jig						
18.	Whi	ch one of followir	ng jigs con	sists	of drill plate,	which	res	t on the com	ponent to be drilled?
	A.	Solid jig				В		Plate jig	
	C.	Box jig				D.		Trunnion j	iig
19.	Whi	ch among the foll	_			location	fro	om internal o	diameter?
	A.	Solid support			type locator				
	C.	Vee locator	D.		locator				
20.		ch jig is used for o							
	Α.	Solid jig	В.		dwich jig				
	C.	post jig D.	Table	_					
21.		made from a sing	_			ali work	(pi	ece is called	
	Α.	Channel jig	B.		dwich jig				
22	C.	Box jig D.	Solid ji	-	is used to b	0 00 to th		anawahla hi	uchings
22.		ch one of the foll	_	nings	is used to it	Jeale II	ie i	B.	_
	A. C.	Press fit bush Special bushir	_					Б. D.	Liner Bushing Knurled bushing
23.	C.	•	_	na da	wico is usod :	for the	cor		fabrication of a job by welding which is
23.	cato	in this device so		_					
			liial il Cai	i be s	wivelled alo	JIIU 300	ue	B.	-
	A. C.	Gauge jig						в. D.	Template Fixture
24.			llowing le	ncato	rs is host cuit	ahle fo	r In		ound shaped job?
- →•	A.	Pin type locato	_	Jeato	is is best suit	able 101	. 10	B.	wedge type locator
	Д.	i iii type iocato	•					υ.	weage type locator
	C.	Vee locator						D.	Adjustable stop locator



25.	Which amon A. Plate fixt C. Indexing	ure	fixture as shown in f	ig? B. D.	Angle plate fix		
26.	_		jig bushing as shown	in fig.	,		
		LOCKED	NLOCKED				
	C. limer bu	-	s a locator used for lo	B. D. cation from in	Slip renewabl Special bushi ternal diamete	ng	
	a) Solid s	supports	o) Nest locator	c) Pin type l	locator d	Vee locator	
	_		uction devices used t correct with respect t		e duplicates pa	rts accurately.	Which one of
	=	ls the work piece. s the tool	b) It holds the tool c) It locates the	tool and the v	vork piece	d) It
	29. Jigs and Fix	xtures are used for					
	•	production of the above	o) Identical parts prod	duction	c) Both 'a'	and 'b'	
	30. The use of	jigs and fixtures					
	b) Elimin c) reduce		f less skilled labour fog operations like mark g operations	•	ig, laying out e	tc.	
	31. The follow	ing is the function	of a jig				
	a) Holdir	ng b) Locating	c) Guiding	d) <i>A</i>	All of the above		
	32. A fixture d	oes not					
	a) Holds d) All of	•	o) Locate the work pions	ece	c) Guide t	he tool	
	33. Jigs are n	ot used in					
	a) Tappir	ng b) Ream	ing c) Dri	lling	d) Milling		
	34. Fixtures a	re used in					
	a) Milling	g b) Shapii	ng c) Tur	ning	d) All of th	ne above	

35. The following holds the work piece securely in a jig or fixture against the cutting forces

- a) Guiding device b) Clamping device c) Indexing device
- d) Locating device
- 36. The following is a quick acting clamp
 - a) Edge clamp
- b) Cam operated clamp c) Hinged clamp
- d) Bridge clamp
- 37. IDENTIFY THE TYPE OF CLAMP USED IN FIXTURE



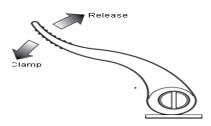
- a) Heel clamp
- b) Bridge clamp c) Latch clamp
- d) Cam clamps
- 38. IDENTIFY THE TYPE OF CLAMP USED IN FIXTURE



- a) Bridge clamp b) Cam clamps c) Heel clamp
- d) Latch clamp
- 39. IDENTIFY THE TYPE OF CLAMP USED IN FIXTURE5



- a) Bridge clamp
- b) Cam clamps c) Latch clamp
- d) Heel clamp
- 40. IDENTIFY THE TYPE OF CLAMP USED IN FIXTURE5



- a) Bridge clamp
- b) Heel clamp
- c) Cam clamps d) Latch clamp
- 41. The following material is commonly used for making locating and clamping devices
 - a) Die steel
- b) High speed steel
- c) Low carbon steel
- d) High carbon steel
- 42. The following type of jig is used for machining in more than one plane
 - a) Box type jig
- b) Open type jigc) Plate type jig d) Template jig
- 43. The jigs and fixtures can be constructed through

	a)	Casting b) Fabr	ication	c) Welding	d) <i>i</i>	All of the above	
44.	Т	he device which	place the work	piece in the sam	e position, i	n jig and fixture, cycle after (cycle is called as
	a)	locating device	b) fixing device	c) placing device	ce d) positi	ioning device	
45.	Wł	nich fixtures are	used for machir	ing parts which	must have m	nachined details evenly spac	ed?
	a)	Profile fixtures	b) Dup	lex fixtures	c) Indexing	fixtures d)None of the above	ve
46.	W	ith the use of Jig	s and fixture qu	ality control expo	enses will		
	a)	Reduce b) Incre d) None	eases c) Jigs are of the mention		ot used in ar	ny production process	
47.	W	hich one of the	following is used	d to guide the to	ol and hold t	the job in mass production?	
	a)	Fixture	b) Gauge	c) Jig	d) Housing		
48.	W	hich one of the	following is used	d to clamp the jo	b in relation	to the tool in mass product	ion?
	a)	Housing	b) Gauge	c) Fixture	d) Jig		
49.	a)	Which among the following locators is best suitable for location of a round shaped job? a) Wedge type locator b) Adjustable stop locator c) Vee locator d). Pin type locator					
50. this		ually drill jig is n	ot clamped to t	he drilling machi	ne table. Wh	nich among the following is t	the reason for
		•					
51.	Dr	ill jig bushings a	re generally mad	de of			
	a)	Cast steel	b) Tool steel	c) Cast	iron	d) Mild steel	
52.	٧	Which among the	e following is the	e purpose for pro	oviding bush	ing in a drill jig ?	
	b) c)	For locating accurately and guiding the drill for precise drilling operation For determining the size of the hole to be drilled For getting good finished surface in the drilled holes For easy drilling					
53.	D	rill jig bushings a	are normally ha	dened to			
	b) c)	Guide the tool so that it does not go inclined Ensure prolonged life without wear and tear so as to guide the tool accurately Protect the jig from damage Allow the chips to come out easily					
54.	Plai	n drill jig bushin	gs are generally	secured in the b	ody of jig so	that the bushings should no	ot
	a)	Rotate when th	ne tool is rotatin	g			

55. Fixed renewable bushings are used when

c) Vibrate while in operationd) Get withdrawn with the tool

b) Vibrate, rotate and be withdrawn while in operation.

c) One opera jig	One operation is to be performed in each hole but several bushings must be used during the life of the jig						
56. Slip renewable bushings are used when							
 a) Many a hole of various sizes are to be drilled on a jig in different settings b) More than one operation has to be performed through the same location on the jig c) One operation is to be performed but several bushings must be used during the life of the jig d) No bushing change is required 							
57. Which one of	the following bushings is	used to locate the	renewable bushings?				
a) Liner bushi d) Knurled bu	•	bushing	c) Special bushing				
58. Tolerance on j	ig should be						
b) 10% of the c) 20 to 50%	b) 10% of the tolerance on the job						
59. Which among	the following statement	s is NOT correct?					
b) Jig is used tc) Jig is used t							
60. Lathe mandrel	s can be termed as a						
a) Template	b) Gauge	c) Fixture	d) Jig				
61. Jig is a device w	hich						
 a) Locates the work piece b) Holds and supports the work piece c) Guides the cutting tool d) Does all the above 							
62. Drill jigs are used for							
 a) Guiding the tool only b) Drilling operations only c) Clamping the job when drilling d) Drilling, reaming, tapping and other allied operations 							
63. Fixture is a pro	oduction device which						
	vork piece e work piece ocates the work piece						

d) Neither holds nor locates the work piece

a) Solid jigb) Plate jig

64. Which among the following jigs is used for location from a bore?

c) Box jig

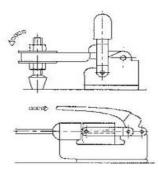
d) Post jig

a) Many a holes of various sizes are to be drilled on a jig in different settings

65.	65. Which one of the following jigs consists of drill plate, which rests on the component to be drilled?						
	a)	Box Jig b) Plate	e Jig	c) Post	Jig	d) Solid	Jig
		hich one of the f his 360° as per re	_	is used	for the conv	venience of f	abrication of a job by welding which is
	a)	Jig	b) Fixture		c) Gauge		d) template
67.	Α	fixture is a devic	ce used for				
	-	guiding the too Tightening tool	lb) loosening the	e work p	oiece c) I	Holding the v	vork piece
68.	W	hich of the follo	wing can hold th	e work,	locate the v	vork and guid	de the drill at the desired position?
	a)	Drill bush	b) V-block		c) Drill jig		d) Drill fixture
69.	Тур	ical locating dev	ice for cylindrica	l job use	ed in jigs and	d fixtures are	
	a)	angle plate	b) drill jigs		c) mandrel	s	d) v - blocks
70.	V-b	lock (vee locator	rs) is used for cla	mping a	s well as loc	ating when f	aces are inclined up to:
	a)	12°	b) 30°		c) 9°	d) 3°	
71.	Nar	me the type of ji	g in which a base	plate is	not availab	le,	
	a)	Plate jigb) Latcl	h jig	c) Box j	ig d)	Trunnion jig	
72.	Th	e use of jigs and	fixtures				
a) F	acil	itates deployme	nt of less skilled	labour f	or productio	on	
b) E	Elim	inates pre-mach	ining operations	like ma	rking, meası	uring, laying o	out etc.
c) F	Redu	ices manual han	dling operations	d) All o	f these		
73.	Fixt	cures are used in					
a) N	∕Iilli	ng b) Shap	oing	c) Turn	ing	d) All of	f these
74.	The	following holds	the work piece s	securely	in a jig or fix	xture against	the cutting forces
	a)	Locating device	e b) Clamping dev	vice	c) Guiding	device	d) Indexing device
75.	Th	e following mate	erial is commonly	used fo	or making loo	cating and cla	amping devices
	a)	Die steel	b) Low carbon s	teel	c) High carl	bon steel	d) High speed steel
	76. The following type of jig suits best for drilling of holes in hollow cylindrical components, with relatively smaller outside and inside diameters, such as bushes						
	a)	Solid type jig	b) Open type jig	gc) Pot t	ype jig	d) Box t	type jig
77.	The	following type o	of jig is used to d	rill a ser	ies of equid	istant hole al	long a circle
	a)	Plate type jig	b) Index jig		c) Open typ	oe jig d) Pot t	ype jig
78.	Th	e jigs and fixture	s can be constru	cted thr	ough		
a) (Cast	ing	b) Fabrication		c) Welding		d) All of these

79.	N	1etal of drill jig b	oushing used				
	a)	Cast iron	b) Tool steel		c) Mild steel		d) Cast steel
80.	Α	jig is special dev	vice	•			
	b) c)	Which hold the Which locate the Which guide the Which hold, su	he cutting tool	the job	o and guides the	e tool	
81.	A f	ixture is a produ	uction tool, that				
	b) c)	Locates the comp Hold the comp Controls the cu Locates and ho	onent	nt			
82.	Wh	nich of the follow	ving can hold the v	work, lo	ocate the work a	and guid	e the tool at the desired position?
	a)	Drill bush	b) Drill fixture		c) V – block		d) Drill jig
83.	The	e application of p	pressure pads in fi	xtures	is to		
	a) b) c) d)	increase the vi increase the w absorb shocks increase the sh	eight				
84.	Dri	illing jigs are use	ed for				
	 a) drilling, reaming tapping and other allied operations b) clamping the job while drilling c) sharpening drill to correct angle d) drilling operation only 						
85.	Jig	s and Fixtures ar	re				
	a)	Machining too	lsb) Precision tool	S	c) both (a) & (b	o)d) non	e of these
86.	Bu	shing in jig is use	ed				
	a) c)	To locate and a			b) To locate th d) None of the		
87.	Fixt	ture is used for .					
		To hid the job None of these	b) To ho	ld and	locate the job		c) To locate the job
88.	88. Which jig is used for location in bore?						
	a)	Solid Jigb) Box	Jig	c) Plate	e Jig	d) Post	: Jig
89.	То	locate the rene	wable bushing in j	ig	В	Bush is us	ed.
	a)	Liner	b) Press Fit		c) Knurled		d) Special
90.	Wh	nich part of jig pr	ovides correct loc	ation t	o drill?		
	a)	Liner Bush	b) Guide Bush		c) Jig plate		d) Setting Block

- 91. Which jig is used for drilling in thin sheets?
 - a) Solid Jigb) Post Jig
- c) Sandwich Jig d) Table Jig
- 92. What is the name of clamp?



- a) Cam clamp
- b) Wedge clamp
- c) Screw clamp d) Toggle clamp
- 93. Which device is used to hold, support, locate and also guide the cutting tool during machining operation?
 - a) Fixture
- b) Jig

- c) 'C' clamp
- d) Machine vice
- 94. What is the purpose of setting blocks used in fixture?
 - a) Position the fixture and work
 - b) Position the balancing weight
 - c) Position the cutter with fixture
 - d) Position the clamp and locators
- 95. This type of jig is employed on multi-spindle machines
 - (A) Index jig(B) Universal jig(C) Open type jig
- (D) Multi-station jig

ANSWER:- CLAMPING AND HOLDING DEVICE

2.B 3.A 5.D 1.A 4.A 6.A 7.D 8.C 9.B 10.B 11.C 12.C 13.C 14.B 15.D 16.B 17.C 18.B 19.B 20.B 21.D 22.B 23.D 24.C 25.C 26.B 27. C, 28.B, 29.C,30.D,31-D, 32.C, 33.D, 34. D,35. B,36.B, 37.B,38-D, 39.D, 40.C, 41.D, 42. A,43.D,44.A,45 -C,46-A, 47-C,48-C, 49-B,50-A,51-B,52-A,53--B,54.B,55.C,56.-B,57-A,58-C,59-A,60-C,61-D,62-D,63-C,64-D,65-B,66-B,67-B,68-C,69-D,70-B,71-A, 72-D,73-D,74-B,75-C,76-C,77-B,78-D,79-B,80-D,81-D,82-D,57-C,83-A,84-C,86-A,87-B,88-D,89-A,90-B,91-C,92-D,93-B,94-D,95-D,

GAUGE

- 1. Which one of the following instruments is used for checking large internal diameter?
- A. Small hole gauge B. Telescopic gauge C. Pluge gauge D. Snap gauge
- 2. A taper ring gauge is used for checking?
- A. External taper B. Internal taper C. External threads D. Internal threads
- 3. Thread ring gauge is used for checking?
- A. External threads B. Internal threads C. External diameter of cylindrical job D. Internal diameter of jobs
- 4. Gauges are made of?
- A. Mild steel B. Alloy steel C. Cast steel D. Cast iron
- 5. Taper plug gauge is used for checking?
- A. Taper holes B. External diameter of cylindrical parts C. Internal diameter of cylindrical parts D. Diameter of straight holes
- 6. A plain ring gauge is used for checking
- A. Taper holes B. External diameter of cylindrical parts C. Internal diameter of cylindrical parts D. Major diameter of external threads
- 7. A plug gauge which has its "Go" and "No Go" sizes on the same end is known as
- A. Single ended plug gauge B. Double ended plug gauge C. Progressive plug gauge D. Continues plug gauge
- 8. Which one of the following gauges is used to align the lathe tool with the work
- A. Try square B. Centre gauge C. Thread gauge D. Straight edge
- 9. Which one of the following gauges is used to check the threading tool of lathe for accuracy on the 60° angle
- A. Screw pitch gauge B. Thread plug gauge C. Centre gauge D. Thread ring gauge
- 10. Centre gauge is used for
- A. Check the profile of thread B. Checking the fit of thread C. Checking the pitch of the thread D. Set lathe tool at correct centre height
- 11. A feeler gauge is used for
- A. Adjusting the parts for plays B. checking gap between matting part C. Checking radii of jobs D. Checking accuracy of holes
- 12. Clearance between metal parts is measured by

- A. Caliper gauge B. Feeler gauge C. "Go" gauge D. Dial gauge
- 13. In an adjustable snap gauge, two adjustable jaws are provided on
- A. Both sides B. One side C. One in each side D. None of the above
- 14. Which one of the following grade of gauge is used for checking the parts made by an operator in the workshop
- A. Workshop gauge B. Inspection gauge C. Reference gauge D. None of the above
- 15. Which one of the following gauge is used for checking cylinder, which are not kept in vertical or horizontal position
- A. Pilot gauge B. Snap gauge C. Ring gauge D. Plug gauge
- 16. In a taper plug gauge the "Go" and "No Go" size are denoted by a step on
- A. The same side B. The either side C. The both sides D. Separately
- 17. Fixed type snap gauge have "Go" and "No Go" ends
- A. The same side B. The either side C. The both sides D. Separately
- 18. At what standards temperature are the gauge kept in the section
- A. 10°C B. 20°C C. 10°F D. 20°F
- 19. In the limit plug gauges, the dimension of NO GO end is equal to
 - A) minimum permissible dimension B) maximum permissible dimension C) same dimension D) half the dimension
- 20. "Go" side of the plug gauge will have the diameter equal to
- A. Actual size of the job B. Basic size of the job C. Minimum size of the job D. Maximum size of the job
- 21. for general use in workshop slip gauge of which grade are used
- A. Grade 0 B. Grade 1 C. Grade 2 D. None of the above
- 22. The accuracy of reference gauge is
- A. 0.05mm B. 0.01mm C. 0.001mm D. 0.0001mm
- 23. As per Indian standards a special set of slip gauge is used consisting of
- A. 81 pieces B. 112 pieces C. 120 pieces D. 130 pieces
- 24. Grade-1 slip gauges are used in
- A. Workshop by operator B. Inspection room C. Either 'a' or 'b' D. Neither 'a' nor 'b'

25. Hardness of slip gauges should be?				
A. More than 63 HRC B. 58 HRC C. 55 HRC D. 50 HRC				
26. Gauge is used to measure the thickness of a wire or sheet?				
A. Profile gauge B. Radius gauge C. Wire gauge D. Slip gauge				
27. What is the full form of SWG with respect to wire measurement?				
A. Supportive Wire Gauge B. Standard Wire Gauge C. Standard Wide Gauge D. Steel Wire Gauge				
28 - Which of the following sentence is incorrect while taking care of slip gauges?				
A. the slip gauge should not be stored in closed case B. prior to use, the slip gauge should be allowed to settle at prevailing room temperature C. fingerings of lapped face during the actual use should be avoided D. while wringing the gauge, standard procedure must be followed to Remove any air gap				
29. The length of a sine bar is given by				
A. the height of the sine bar B. the distance the distance between the centre of the rollers C. the distance between the end point of both rollers D. the distance the distance between the end point and centre of the rollers				
30. Which of the following comparators can measure up to the accuracy of one 1 micron?				
A. sigma comparator B. electronic comparator C. pneumatic comparator D. optical comparator				
31. The other name of feeler gauge is				
A) thickness gauge B) fillet gauge C) fillet weld gauge D) slip gauge				
32. Clearance between mating parts is measured by				
A) dial gauge B) go gauge C) feeler gauge D) calliper gauge				
33. Number of threads per inch a screw or bolt is checked by				
A) Vernier calliper B) dial gauge C) screw pitch gauge D) plug gauge				
34. Sine bar is used to measure				
A) angle of a tapered job B) angle between surface C) run out of job D) none of the above				
35. Thread ring gauge are Used to check external thread separate 'go' and 'no go' getting members are provided which one of the following is true thread element is not checked with this ring gauge				
A) pitch B) helix angle C) profile D) pitch diameter				
36. Slip gauge are wrong to gather by				
A) sliding motion only B) twisting motion only C) Combined sliding and twisting motion D) curvilinear motion only				
37. The gauge used to measure a fillet of a curved surface is				
A) plug gauge B) radius gauge C) screw pitch gauge 'D) planer gauge				
38. Ais used for inspecting cylindrical hole				
A) snap gauge B) plug gauge C) ring gauge D) position gauge				

39 . Which one of the following is not r	39 . Which one of the following is not mentioned (marked) on the plug gauge				
A) nominal sizeC) Manufacturer name or trade ma	A) nominal size B) class of tolerance C) Manufacturer name or trade mark D) material of the gauge				
40. The gauge used to check the conto	ur profile of a work peace is				
A) form gauge B) weight gauge C)	ring gauge D) position gauge				
41. Which of the following grade of slip	gauge is not specified by the				
A) grade-00 B) grade-0 C) grade-1	D) grade-3				
42. Which is not true for a wire gauge?					
B) Each slots and holes in the disc is C) Steel disc in which number of ho	 A) Used to measure the thickness of a wire B) Each slots and holes in the disc is marked with its size C) Steel disc in which number of holes and slots are provided D) Used to measure electrical conductivity of wire 				
43. The number of which specify thickn	ess of sheet metal is known as				
A) Sheet size B) wire size C) gauge D) no	one of the above				
44. Which one of the following statement	ents is true for slip gauges?				
A) metal block which are ground and lapped to a specific thickness B) used to measure surface finish C) used to measure fine air gaps between two surface D) slip gauge always gives error in desired length when stacked together					
45 - Which grade slip gauge is used for	precision tool room applications?				
A) grade-00 B) grade-0 C) grade-1	D) grade-2				
46 - What is the purpose of tapper ring	gauge?				
A) Check the outside thread.C) Check the ring holes diameter	B) check the outside diameter D) check the taper shaft diameter				
47. What is the use of telescopic gauge	?				
A) Measure internal dimension	B) measure external dimension				
C) Measure size of hole, slot	D) measure angular dimension				
48. Which one of the gauges are used to	o check the accuracy of external thread				
A) snap gauge B) taper ring gauge	C) thread ring gauge D) plug gauge				
49. What is the purpose of taper ring gauge?					
A) Check the out side thread	B) check the outside diameter				
C) Check the ring holes diameter D) check the taper shaft diameter					
50. Which one of the gauges are used to check the accuracy of internal thread					
A) snap gauge B) taper ring gauge C) t	thread ring gauge D) thread plug gauge				
51. Ais used for inspecting cylind	rical shaft				
A) Snap gauge B) plug gauge C) ring gauge D) position gauge					

A) Check the outside threads	B) check the outside diameter				
C) Check the ring holes diameter.	D) Check the taper hole diameter				
53. The flank angle and the form of fin	e screw thread can be checked by using an				
A) plug gauge B) optical projector	r C) thread micrometer D) nota				
54. While setting angle with sine bar, v	which side of the right angle does the sine bar represent?				
A) opposite side B) adjacent side	C) hypotenuse side D) none of the above				
55. What is the purpose of plug gauge	e?				
A) Check the outside thread B)	check the inside diameter				
C) Check the ring holes diameter D) check the taper hole diameter				
56. For measuring angles using the sin slip gauges and the	e bar, the angle formed according to the ratio between the height of the				
A) height of the sine bar B) numb	per of slip gauge C) length of sine bar D) width of sine bar				
57. The purpose of the holes provided	57. The purpose of the holes provided on the sides of the sine bar is to				
A) prevent distortion B) fix on an	gle plate C) handle easily D) minimise surface contact				
58. Tool maker buttons are made of	·				
A) plastic B) bronze C) cast iron D) hardened steel				
59. Fixed type of snap gauges will hav	ve				
A) 'Go' & 'No Go' on either ends C) 'Go' & 'No Go' separately	B) 'Go' & 'No go' on the same end. D) 'Go' & 'No Go' on both ends.				
60. For cleaning the measuring faces of	of slip gauges, the liquid used is				
A) kerosene B) carbon tetra chlorophyll C) carbon tetra chloride D) soluble oil					
61. Which of the following statements	is correct?				
a. Gauges used to check the size					
b. Templates are used to check size					
c. Gauges are used to measure the size					
d. Gauges are used to check the shape of components					
62. A filler gauge is used for					
A. adjust the parts for play b .Checking gap between mating parts					
C. checking the fit of thread	d. checking the profile of thread				
63. Centre gauge is used for					

b. checking the pitch of the thread

52- What is the purpose of taper plug gauge?

a. Setting the lathe tool at correct centre height

64. Which one of the following gauges is used t angle?	o check the threading tool of lathe for accuracy on the 600		
a. Screw pitch gauge	b. Thread plug gauge		
c. Centre gauge	d. Thread ring gauge		
65. Which of the following gauges is used to align	gn the lathe tool with the work?		
a. Try square	b. Centre gauge		
c. Thread gauge	d. Straight gauge		
66. A plug gauge which has its "GO" AND "NO G	60" sizes on the same end is known as		
a. Single ended plug gauge	b. Double ended plug gauge		
c. Progressive plug gauge	d. Continuous plug gauge		
67. A plain ring gauge is used for checking			
a. Taper holes	b. External diameter of cylindrical parts		
c. Internal diameter of cylindrical parts	d. Major diameter of External threads		
68. Taper plug gauge is used for checking	<u>_</u> .		
a. Taper holes	b. External tapers of cylindrical parts		
c. Minor diameter of internal threads	d. Diameter of straight holes		
69. Gauges are made of			
a. Cast iron	b. Cast steel		
c. Alloy steel	d. Mild steel		
70. Thread ring gauge is used for checking			
a. External threads	b. internal thread		
c. External diameter of cylindrical jobs	d. internal diameter of jobs		
71. A taper ring gauge is used for checking			
a. External taper	b. Internal taper		
c. External thread	d. internal thread		
72. Which of the following instruments is used	for checking large internal diameters?		
a. Small whole gauge	b. Telescopic gauge		
c. Plug gauge	d. Snap gauge		
73."Go " side the plug gauge will have the diameter equal to			
a. Actual size of the job	b. Basic size of the job		
c. Minimum size of the job	d. Maximum size of the job		

d. checking the profile of thread

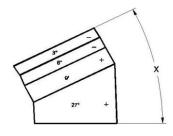
c. Checking the fit of thread

74. At the standard temperature are the gauges i	kept the section?			
a.10°C	b.20° C			
c.10°F	d.20°F			
75. Fixed type snap gauges have "Go" and "No Go	o" end			
A. On both side	b. The either side			
c. On the same side	d. separately			
76. In a taper plug gauge the "Go and "No Go" size	zes are donated by a step on			
a. The same side	b. The either side			
c. The both sides	d. separately			
77. Which of the following gauges is used for che position?	cking cylinders, which are not kept in vertical or horizontal			
a. Plug gauge	b. Ring gauge			
c. Snap gauge	d. Pilot gauge			
78. Which one of the following grade of gauges is workshops?	s used for checking the parts made by an operator in the			
a. Workshop gauge	b. Inspection gauge			
c. Reference gauge	d. None of these			
79. In an adjustable snap gauge, two adjustable ja	aws are provide on			
a. Both sides	b. One side			
c. One in each side	d. None of these			
80."Go" and "No sizes of 25H ₇ plug gauge should	be			
A.24.958 mm (Go) and 25.023 mm (No Go)				
B.25.023 mm (Go) and 24.958 mm (No Go)				
C.24.977 mm (Go) and 25.042 mm (No Go)				
D.25.042 mm (Go) and 24.977 mm (No Go)				
81."Go" and "No Go" sizes of 25h, snap gauge should be				
A.24.977 mm (Go) and 25.002 mm (No Go)				
B.24.958 mm (Go) and 25.023 mm (No Go)				
C.24.958 mm (Go) and 25.023 mm (No Go)				
D.24.958 mm (Go) and 25.023 mm (No Go				
82. Clearance between mating parts is measured	by			

b."Go" gauge

a. Dial gauge

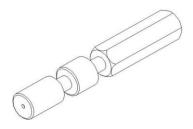
c. Feeler gauge	d. Caliper gauge			
83. Before wringing, the mating surfa	ces of slip gauges should be wiped clean with			
a. Soft linen cloth	b. Chamosie leather			
c. Either (a) or (b)	d. Neither (a) nor (b)			
84. for general purpose in workshop,	slip gauges of which grade are used?			
A.Grade-0	b.Grade-1			
C.Grade-2	d. none of these			
85. Hardness of slip gauges should be	•			
a. More than 63 HRC	b.58 HRC			
C.56 HRC	d.50 HRC			
86. Grade –I slip gauges are used in				
a. Workshop by operator	b. Inspection room			
c. Either (a) or (b)	d. Neither (a) nor (b)			
87. As per Indian standards a special set of slip gauge is used consisting of				
A.81 pieces	b.112 pieces			
C.120 pieces	d.130 pieces			
88. A sine bar is made with four or five	ve equally – spaced holes on its body. The purpose of these holes is to			
a. Handle the sine bar easily	b. Reduce the weight of sine bar			
c. Prevent distortion of the top surface d. Give good appearance to the sine bar				
89. A sine bar is available in standard	sizes. Which one of the following is NOT a standard size of the sine bar?			
a.100	b.200			
c.250	d.300			
90. The accuracy of reference gauge	is			
A. 0.05 mm	b.0.01 mm			
C.0.001 mm	d.0.0001 mm			
	used to check the dimensional accuracy of an external 'V' thread, is a screw e following elements of a screw thread is checked with screw thread			
a. Major diameter	b. Minor diameter			
c. Pitch diameter	d. Pitch			
92. What is the size of angle?				
32. What is the size of aligie:				



- a) 27⁰ 8' 9"
 - b) 26⁰8' 9"
- c) 27⁰8′ 5″

d) 27°9′9″

93. What is the type of gauge?



a) Ring gauge

b) Double ended plug gauge

c) Thread plug gauge

- d) Progressive plug gauge
- 94. What is the name of the part marked as 'X' in the height gauge as shown in figure?



a) Main scale

b) Main slide

c) Jan lamp

d) Vernier scale

ANSWER: GAUGE

1. B 2.A 3.A 4. C. 5 A 6.b 7.c 8.b 9.c 10.d 11.b 12.b 13.b 14.a 15.a 16.a. 17.a 18.b 19.c 20.c

21.c 22.c 23.b 24.b 25.a 26.c 27.c 28.c 29.d 30.b 31.a 32. A 33.d 34.a 35.d 36.b 37.b 38.b

39.c 40.b 41.c 42.c 43. 44.d 45.a 46.d 47.b 48. B 49.a 50.a 51.b 52. D 53. C 54.B 55.d 56.c

57. B 58.d 59.b 60. C

61 62 b 63 65 b 66 64 67 68 69 70 71 72 b 73 74 75 77 78 а С b С 76 а d 79 b 80 а 81 b 82 83 85 86 88 89 84 87 d 90 С

91 92 93

MACHINE FOUNDATION

1) The curved end of a crowbar is used as	a) Dial test indicator
a) First-class lever b) second-	b) Test mandrel and dial test indicator
class lever	c) Precision height gauge
c) third-class lever	d) Test mandrel and precision height gauge
d) None of the above	
2) Crowbars are also known as	10) The sensitivity of precision spirit level is
a) Press bars b) wedge bars c)) 0.00 (0.05 /100
pry bars	a) 0.02 to 0.05 / l00 mm
d) Split bars	b) 0.02 to 0.05 / 200 mm
3) Why do masons prefer to use plumb bob with	c) 0.02 to 0.05 / 500 mm
nylon string?	d) 0.02 to 0.05 / 1000 mm
a) It is cheap b) It is more accurate	
c) It can stand dampness	11) A concrete mixture ratio is given as 1 : 2 : 4.
d) It is easy to carry	Which one of the following indicates the
4) Which one of the following is not a basic	numbers?
component of wire rope?	a) One part cement, two parts sand and four
a) Wires b) Strands c)	parts stone
Core d) Base	b) One part stone, two parts cement and four
5) Preventive maintenance is	parts sand
	c) One part sand, two parts stone and four
 a) The overall lubrication and repair work 	parts cement
carried out by the maintenance	d) One part cement, two parts stone and four
section in advance of the machine	parts sand
coming to breakdown.	
b) The maintenance work for any fault	12) How many type of maintenance are there?
noticed during working.	a) Two b) Three c) Four
c) Done to prevent the maintenance of	d) Five
machines.	·
d) None of the above	13)is necessary for continuous
6) Leveling bolts are used for	better production.
	a) Routine maintenance
 a) Supporting the load for machine 	b) Breakdown maintenance
h) Adjusting the height of meaching	c) Preventive maintenance
b) Adjusting the height of machine	d) None of these
c) Rigidity of machine	
d) None of the above	14) Spirit level is used for
a, mone or and above	a) While foundation of machine
7) Which one of the following tests is carried	b) Testing of machine
out after overhauling and reconditioning of	c) For starting of machine
machines?	d) While machine is erected
a) Periodic acceptance test	15) Crowbar is made by
b) Geometrical test only	a) Copper b) Steel c) Brass d) Cast
c) Performance test only	
c) None of the above	iron
8) The permissible deviation for leveling of	1C) Nove the first true form detical holt that is
machine is	16) Name the fixed type foundation bolt that is
-) 0.02 /400 m · · · · · · · · · · · · · · · · · ·	usually forged and filled up with lead and
a) 0.03 / 100 mm b) 0.03 / 200 mm	cement?
c) 0.03 / 300 mm d) 0.03 / 400 mm	a)bent type bolt b) Ordinary bolt c) Eye bolt
9) Which one of the following is used for	d) Rag bolt
checking run out of the internal taper of	
machine spindle?	

17) Which type of crow bar is easier to handle	a) Slip knot b) Square knot
and the point will fit into a narrow gap?	c) Bowline knot d) Clove hitch knot
a) Short crow bar	27) What is the purpose of clove hitch knot?
b) Long crow bar	a) Secure rope to small pipe or ring
c) Single ended crow bar	b) Secure rope to pipe or post
d) Double ended crow bar	c) Joins two pieces of ropes
	d) For lifting light loads
18) The sensitiveness of the spirit level depends	28) Which wire rope strands are twisted in the
upon the	opposite direction?
a) type of liquid filled in the glass tube	a) Combined lay rope. b) Regular rope
b) size of the bubble	c) Land lay rope d) Rigid lay rope
c) curvature of the glass tube	29) Name the rope binding method.
d) length of the glass tube	a) Round turn b) Knot
10) The eminist level is used for abouting the level	c) Bight d) Loop
19) The spirit level is used for checking the level	30) What material is used as a grouting for
of machine when	steam turbines?
a) Shifting the machine	
b) Grouting the machine	a) Clay, lime, brick grout b)
c) Erecting the machined) Lifting the machine	Sulphur
d) Litting the machine	c) Lead d). Cement concrete grout
20) Fastening of one part of rope to other point of rope is known as	31) What is the name of the foundation bolts?
a) Loop b) Bight c) Knot d) Round	a) Rawl bolt b) Cotter bolt
turn	c) Bent bolt d) Rag bolt
	a, rag son
21) Preventive maintenance is carried Out	32-Maintenance consist of the following
a) Before failure of machine	action(s)
b) After failure of machine	(A) Replace of component
c) Both (a) & (b)	(B) Repair of component
d) None of these	(C) Service of component
•	(D) All of the above
22) Block spirit level is used to check	33-The time elapsed from the point the
	machine fails to perform its function to the
a) Horizontal level	point it is repaired and brought into operating
b) Vertical level	condition is known as
c) Both (a) & (b)	(A) Down time (B) Break Down
d) Only angular measurement	time
	(C) Both (A) and (B) (D) Idle
	time
23) Spirit level is used for	34-The down time cost consists of
a) Foundation of machine	(A) Loss of production
b) Testing for machine	(B) Wages paid to the workers
c) For starting of machine	(C) Reduction in sales
d) While machine is erected	(D) All of the above
24) What is the frequency of maintenance	35-The following is not a classification of
symbol?	maintenance
a) Daile la Maralde a) Marathle	(A) Corrective maintenance
a) Daily b) Weekly c) Monthly	(B) Timely maintenance
d)Frequently	(C) Scheduled maintenance
25) What is the name of foundation bolt?a) Expanding conical washer bolt	(D) Preventive maintenance 36-Belt of an electric motor is broken, it needs
	(A) Corrective maintenance
b) Rawl bolt c) Bent type eye boltd). Removable bolt	(B) Scheduled maintenance
26) Which type of rope knot is used for lifting	(C) Preventive maintenance
light load?	(D) Timely maintenance
ngnt loau:	(D) Timely maintenance

37-The following is (are) scheduled	45-Total productive maintenance aims at
maintenance	(A) Less idle time
(A) Overhauling of machine	(B) Increase in productivity
(B) Cleaning of tank	(C) Zero down time
(C) Whitewashing of building (D) All of	(D) None of the above
the above	46-Total Productive maintenance (TPM)
	approach has the potential of providing almost
38-Scheduled maintenance is between	a seamless integration between
breakdown maintenance and the preventive	(A) Production and Quality
maintenance.	(B) Quality and Maintenance
(A) Joint (B) Compromise	(C) Production and Maintenance
(C) Bridge (D) In	(D) All of the above
39-Equipment history cards are meant to record	47.Leveling bolts are used for
(A) The way equipment behaves	(A) supporting the load for machine
(B) Total down time of the equipment	(B) adjusting the height for machine
(C) The rate at which different components	(C) rigidity of machine
wear off	(D) none of the above
(D) All of the above	
41-With the increase in preventive	48. A concrete mixture ratio is given as 1:2:4.
maintenance cost, breakdown maintenance	Which one of the following indicates the number?
cost	
(A) Increases (B) Decreases	(A) one part cement, two parts sand and
(C) Remain same (D) any of the	four part stone
above	(B) one part stone, two parts cement and
42-A systematic approach for maintenance is	four part sand
(A) Problem – Cause – Diagnosis –	(C) one part sand, two parts stone and four
Rectification	parts cement
(B) Problem – Diagnosis – Cause –	(D) one part cement, two parts stone and
Rectification	four parts sand
(C) Problem – Measure – Diagnosis –	49. Which of the following is not a type of
Rectification	foundation for machines?
(D) Problem – Diagnosis – Measure –	(A) Block type
Rectification	(B) Box type
43-(Down time in hours / Available hours) =	(C) Bare type
(A) Maintenance effectiveness	(D) Framed type
(B) Frequency of breakdown	50. Anchor bolts, which secure the machine
(C) Effectiveness of maintenance planning	to its foundation, are normally of the
(D) None of the above	type
44-(Number of breakdowns / Available machine	(A) I bolt
hours) =	(B) J bolt

- (A) Maintenance effectiveness
 - (B) Frequency of breakdown(C) Effectiveness of maintenance planning
 - (D) None of the above
 - **ANSWERS: MACHINE FOUNDATION**
 - 1-A, 2-C, 3-C 4-D, 5-A, 6-B, 7-A, 8-C, 9-B,10-D,11-A,12-B,13-C,14-A,15-B,16-D,17-A, 18-C,19-C,20-C,21-A, 22-C, 23-A, 24-B, 25-B,26-A, 27-B,28-B, 29-D,30-C,31-A, 32-(D), 33-(C), 34-(D), 35-(B), 36-(A), 37-(D), 38-(B), 39-(D), 40-(C), 41-(B), 42-(A), 43-(A), 44-(B), 45-(C), 46-(C) 47-(b), 48-(a), 49-(c), 50-(b)

(C) T bolt

(D) Square bolt

AUTOMOBILE

1.	Poston rings are generally made of –					
A.	Brass		В.	Copper		
C.	Cast iron		C.	Aluminum		
2.	Which part of the piston is subjected to high pressure and temperature?					
A.	Crown		В.	Skirt		
C.	Land		D.	Ring section		
3.	The purpose of a gudgeon pin is to					
A.	Combustion		В.	Cylinder wall lubrication		
C.	Oil consumption		D.	All of the above		
4.	The connecting rod is made of-					
A.	Mild steel		В.	Aluminum		
C.	Alloy steel		D.	Cast iron		
5.	Each time a joint is assembled, art is recommended to replace-					
A.	Cork gaskets		В.	Asbestos gaskets		
C.	Rubber gaskets	ober gaskets D. All gaskets				
6.	The oil pan in an engine is made of –					
A.	Steel or aluminum		В.	Steel or cast iron		
C.	Cast iron or brass		D.	Cast iron or zinc		
7.	The minimum number of compression is	rings in a	an autor	notive engine is-		
A.	One		В.	Two		
C.	Three		D.	Four		
8.	Compression ring are generally made or	f				
A.	Low carbon steel		В.	High carbon steel		
C.	Aluminum		D.	Cast iron		
9.	Connecting rod connects the crankshaft	t and th	е			
A.	Cylinder head		В.	Cylinder block		
C.	Piston		D.	Camshaft		
10.	On the rear end of a crankshaft is mour	ited				
A.	Timing sprocket		В.	Flywheel		
C.	Vibration		D.	Counterweight		

11.	in a six-cylinder car engine the angle bet	tween tl	ne succe	ssive crank throw is-	
A.	60 degree		В.	90 degree	
C.	120 degree		C.	180 degree	
12.	The opening and closing of valves in rela	ation to	piston m	novement is called	
A.	Valve timing		В.	Valve operating	
C.	Valve mechanism		D.	Valve overlap	
13. close to	. Which one of the following camshaft drive mechanisms is used when crankshaft and camshaft are vase to each other?				
A.	Gear drive		В.	Chain drive	
C.	Bolt drive		D.	Sprocket drive	
14.	On the front end of a crankshaft is mour	nted			
A.	Timing gear		В.	Vibration damper	
C.	Fan pulley		D.	All of these	
15.	The vibration damper on a crankshaft re	duces t	he		
A.	Longitudinal vibrations	B.	Transve	erse vibration	
В.	Torsional vibration		D.	All of these	
16.	The most commonly used valve in an au	tomobi	le engine	e is-	
A.	Poppet valve		В.	Sleeve valve	
В.	Rotary valve		D.	None of these	
17.	Exhaust valve face angle is generally				
A.	30 degree		В.	45 degree	
C.	60 degree		D.	75 degree	
18.	The engine valves are closed by				
A.	Crankshaft opening		В.	Camshaft	
C.	Timing device		D.	valve spring	
19.	The camshaft control-				
A.	Valve opening	B.	Valve c	losing	
C.	Valve timing		D.	All of these	
20. close?	How many times in a minute does as val	lve on a	four-str	op engine running at 2000	rpm open and
A.	1000		В.	2000	
C.	4000		D.	6000	
21.	Which of the following are added to the	piston	an cylind	der?	

A.	Piston pins		B.	Gaskets		
C.	Piston rings		D.	Rubble packing		
22.	The engine component which reduces noise of exhaust gases is					
A.	Tail pipe		В.	Inlet manifold		
C.	Muffler		D.	Exhaust pipe		
23.	In which one of the following types the	valves a	re arran	ged in the cylinder head?		
A.	I-head		В.	L-head		
C.	F-head	D.	T-head			
24.	In which one of the following types is the the cylinder block?	e inlet v	alve arra	anged in cylinder head and the exhaust valve in		
A.	I-head		В.	L-head		
C.	F-head		D.	T-head		
25.	Valves are arrange to open before T.D.C	or B.D.	C is reac	hed. This is called		
A.	lead		B.	lag		
C.	overlaps		D.	None of these		
26.	Valve are arranged to close later then T.	D.C or E	B.D.C is r	eached. This is called		
A.	Lade		B.	Lag		
C.	overlap	D.	none of	these		
27.	Camshaft in an engine is always mounte	d				
A.	Parallel to the crankshaft		B. Perp	endicular to the crankshaft		
C.	Inclined to the crankshaft		D.	None of these		
28.	A diesel engine					
A.	is spark ignition engine		B.	is compression ignition engine		
C.	is external combustion engine		D.	uses gasoline as fuel		
29.	Which one of the following is an example	e of ext	ernal co	mbustion engine ?		
A.	petrol engine		B.	Diesel engine		
C.	LPG engine		D.	steam locomotive engine		
30.	The main characteristic of diesel engines method of igniting fuel. What ignite the		_	nishes from other combustion engines is the ne cylinder of a diesel engine?		
a.	compressed air		b.	spark plug		
c.	heater plug		d.	battery		
31.	when compared to petrol engine, to a d	iesel en	gine			
a.	uses cheaper fuel		b.	has higher thermal efficiency		

c.	is heavier	d.	all of the above			
32.	When fuel is burnt in an internal combustion engine the chemical energy stored in it is converted into					
A.	mechanical energy	b.	Electrical energy			
c.	heat energy	d.	Kinetic energy			
33.	A heat engine converts					
A.	heat energy into mechanical energy					
В.	mechanical energy into heat energy					
C.	both a & b					
D.	neither a nor b					
34.	Which one of the following statement is not tr	ue abou	t internal combustion engine?			
a.	immediate starting and stopping possible	b.	high speed engine			
c.	mostly double –acting	d.	combustion inside the cylinder			
35.	Based on the system of ignition used, diesel er	ngine als	o called			
a.	compression ignition engine	b.	self ignition engine			
C.	air ignition engine	d.	airless ignition engine			
36.	A 4 stroke cycle engine produces one power st	roke in				
a.	2 revolution of crank shaft	b.	4 revolution of crank shaft			
c.	6 revolution of crank shaft	d.	8 revolution of crank shaft			
37.	A two stroke cycle engine produces one power	stroke	in			
a.	each revolution of crank shaft	b.	2 revolution of crank shaft			
c.	3 revolution of crank shaft	d.	4 revolution of crank shaft			
38.	Which one of the following gives the correct p stroke ?	osition	of inlet and exhaust valves during the power			
a.	inlet valve opens and exhaust valve closed	c.	both valves remains in closed positions			
b.	exhaust valve opens and inlet valve closed	d.	both valve remains in open position			
39.	In an engine stroke length is					
a.	half the throw of crank	b.	equal to throw of crank			
c.	double the throw of crank	d.	three time the throw of crank			
40.	The stroke of an engine is					
a.	inside diameter of the cylinder	b.	distance between t.d.c and b.d.c			
c.	volume of the cylinder	d.	Length of the connecting rod			
41.	A 4 cylinder engine has a capacity of 2.4 liter. 1	he swer	ot volume of one cylinder is			

a.	400 cm	n-cube	b.	600 cm	n-cube
c.	1200 c	m cube	d.	2400c	m cube
42.	An engine has a clearance volume of 100 cm cube and a swept volume of 800 cm cube. The compression ratio is				
a.	10:1		b.	9:1	
c.	8:1		d.	7:1	
43.	A single cylinder engine, which has a power stroke in every two revolution of the crank each side working on				
a.	single-	stroke engine	b.	double	- stroke engine
c.	three-	stroke engine	d.	four- s	troke engine
44.	Which	one of the following gives the correct se	quence	of four s	troke cycle engine?
a.	inducti	on, power, compression, exhaust	b.	inducti	on, exhaust, compression , power
c.	inducti	on , compression , power , exhaust	d.	inducti	on, power, exhaust, compression
45.	If a fou	ır stroke engine, makes 1000 revolution	per minu	ites, the	number of power stroke/minutes ,will
a.	250		b.	500	
c.	750		d.	1000	
46.	Which	one of the following steps will result in i	ncreasin	g the str	oke length?
	a.	piston made shorter		b.	Connecting rod lengthened
					•
	C.	crank shaft throw increase			
	C. D.	crank shaft throw increase gudgeon pin move near to the cranksha	aft		
47.	D.				e over its non –working strokes?
47.	D.	gudgeon pin move near to the cranksh			e over its non –working strokes? Crank shaft
47.	D. Which	gudgeon pin move near to the crankshoone the following engine component 'ca		e engine	-
47. 48	D. Which A. c.	gudgeon pin move near to the crankshadone the following engine component 'capiston connecting rod which one of the following strokes prod	rries' th	e engine b. d.	Crank shaft Flywheel
	D. Which A. c. During	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce?	rries' th	e engine b. d.	Crank shaft Flywheel ne cylinder less than the atmospheric
48	D. Which A. c. During pressu	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce? on	rries' the	e engine b. d. he engir	Crank shaft Flywheel ne cylinder less than the atmospheric ession
48 a.	D. Which A. c. During pressu Inducti power	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce? on	uces in t	e engine b. d. he engir Compr Exhaus	Crank shaft Flywheel ne cylinder less than the atmospheric ession
48 a. c.	D. Which A. c. During pressu Inducti power	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce? Son gle- cylinder two stroke engines rotates and suggestions are the component of the component of the following strokes produced the cylinder two strokes engines rotates and suggestions are component of the component o	uces in t	e engine b. d. he engir Compr Exhaus	Crank shaft Flywheel ne cylinder less than the atmospheric ession
48 a. c. 49.	D. Which A. c. During pressu Inducti power If a sing strokes	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce? Son gle- cylinder two stroke engines rotates and suggestions are the component of the component of the following strokes produced the cylinder two strokes engines rotates and suggestions are component of the component o	uces in t b. d.	e engine b. d. he engir Compr Exhaus	Crank shaft Flywheel ne cylinder less than the atmospheric ession
48 a. c. 49.	D. Which A. c. During pressu Induction power If a sing strokes 500 1500	gudgeon pin move near to the crankshadone the following engine component 'capiston' connecting rod which one of the following strokes produce? Son gle- cylinder two stroke engines rotates and suggestions are the component of the component of the following strokes produced the cylinder two strokes engines rotates and suggestions are component of the component o	uces in to d. at 2000 r	e engine b. d. he engine Exhaus evolutio	Crank shaft Flywheel ne cylinder less than the atmospheric ession

C.	cylinde	er	D.	piston		
51.	The ratio between BHP and IHP is called					
A.	therma	al efficiency	b.	engine	efficien	су
	C.	Mechanical efficiency		D.	Power	efficiency
52.	During suction stroke the charge drawn in a diesel engine is					
a.	fuel only b. mixture of air and fuel					ind fuel
c.	air only d. none off the above				oove	
53.	A two	stroke engine has port in the				
	A.	piston		b.	cylinde	r wall
	C.	piston rings		d.	crankc	ase
54.	Which	one of the following condition is not true	e about i	intake st	roke of	4-stroke diesel engine
	A.	a partial valve is produce in the cylinde	r.	В.	the pis	ton starts at b. d. c
	C.	The exhaust valve is closed		D.	air is p	ushed into the cylinder
55.	An engine should not be operated in a closed garage because					
A.	exhaust gas is poisonous B. of the risk of an explosion				n explosion	
C.	the en	gine receives an incorrect mixture				
D.	the engine is damaged if the gas cannot escape					
56.	Which	one of the following type of engine has t	he highe	est fuel e	efficienc	y?
	A.	opposed engine		В.	radial e	engine
	C.	Inline Engine		D.	'v' eng	ine
57.	Which	one of the following types of engine has	longest	cranksh	aft ?	
	A.	opposed engine			В.	radial engine
	C.	inline Engine			D.	'v' engine
58.	During	suction stroke the charge drawn in a pe	trol eng	ines		
A.	petrol	only			В.	air only
C.	air and	petrol mixture			D.	None of the above
59.	If there	e is resistance of the flow air during intak	e stroke	, it will		
a.	reduce	e power of the engine		b.	increas	e power of the engine
c.	have one effect on power of the engine d. Cause fluctuation on power of the engine				ower of the engine	

	A.	A mixture of air and fuel	В.	Pure air alone	
	C.	Fuel alone	D.	Gas	
61.	In a Die	sel engine, fuel and air mix together in the			
	A.	Carburetor	В.	Injector	
	C.	Combustion Chamber	D.	Inlet port	
62.	A diesel	engine fuel is ignited by			
	A.	Glow plugs	В.	Spark plugs	
	C.	An injector			
	D.	Virtue of temperature of compressed air			
63.	What is	the material used to produce crank shaft?			
	A.	Chromium vanadium nickel steel	В.	High speed steel	
	C.	Cast iron	D.	Wrought iron	
64.	What is	the material of piston pins?			
A: Nick	el chrom	ium steel	B: Cast iron		
C: HSS			D: Bronze		
65.	What is	the name the portion below the piston boss?			
A : Land	d of the p	piston	B : Ring sect	ion of the piston	
C : Crov	wn of the	piston	D : Skirt of	the piston	
66.	What t	ype of bearing fitted in the connecting rod big er	nd?		
A : Nee	dle beari	ing	B : Ball beari	ng	
C : Tape	er roller l	pearing	D : Shell bea	ring	
67.	Which p	part connects the piston with connecting rod?			
A : Pisto	on pin		B : Spilt pin		
C : Crar	nk pin		D : Cotter pi	n	
68.	Which p	part is connecting the piston with crank pin?			
A : Pusł	n rod		B : Connection	ng rod	
C : Cam	Shaft		D : Crank Sha	aft	
69.	Which t	ool used to remove the crank shaft pulley?			
A : Dou	ble and s	spanner	B : Ring spar	nner	
C : Pipe	wrench		D : Puller		
70.	Which t	ool is used to measure the diameter of the cran	k shaft main j	ournal?	
A : Insid	de microi	meter	B : Outside r	nicrometer	

C : Th	ree point internal micrometer	D : Master ring gauge
71.	What is the material for cam shaft?	
A : Fo	orged alloy steel	B : Copper alloy
C : Al	uminum alloy	D : Zinc alloy
72.	Which tool is required to remove the valves?	
A : To	orque wrench	B: Valve spring lifter
C : Bo	ox spanner	D : Scrape
73.	Which instrument is used to check the vacuum	of the cylinder?
A : Cc	ompression gauge	B : Dial gauge
C : V a	acuum gauge	D : Wire gauge
74.	Which measuring instrument used to check the	e fly wheel face out?
4 : Di	al indicator	B : Compression gauge
: Oı	utside micrometer	D : Feeler gauge
75.	Which is the most preferred use of taper roller	bearings?
4 : Ge	ear boxes	B : Fly wheel and water pump
C : Di	fferential and wheel hub	D : Connecting rods
76.	What is the property of a bearing helps to with	stand metal to metal contact?
Գ ։ Su	urface action	B : Thermal conductivity
2 : Fa	tigue strength	D : Embed ability
77.	Which is the most preferred use of roller bearing	ngs?
۱ : Ge	ear boxes	B : Fly wheel
C : Di	fferential	D : Connecting rods
78.	Which is connected with piston through piston	pin?
4 ։ Gւ	udgeon pin	B : Connecting rod
C : Ca	ım shaft	D : Rocker arm
79.	Which is the key element in converting reciproc	cating motion in to rotary motion?
4 : Cc	onnecting rod	B : Gudgeon pin
C : Kiı	ng pin	D : Cam shaft
30.	Which is transferring energy for the piston to c	rankshaft?
A : Gı	udgeon pin	B : King pin
C : Co	onnecting rod	D : Cam shaft

81. Which is the load taken by the roller bearing?	
A : Radial load	B : Axial load
C : Thrust load	D : Radial and axial load
82. What is the load taken by taper roller bearing?	
A : Radial load	B : Axial and radial load
C : Thrust load	D : Radial and axial load
83. Which is the bearing used in differential and wheel of hea	avy vehicles?
A: Ball bearing	B : Roller bearing
C : Needle bearing	D : Taper roller bearing
84. Which is the bearing used in water pump?	
A: Ball bearing	B : Roller bearing
C : Needle bearing	D : Taper roller bearing
85. Which are the bearing used in gear boxes?	
A: Ball bearing	B : Roller bearing
C : Needle bearing	D : Taper roller bearing
86. Which is the most preferred use of bush bearings?	
A : Connecting rods	B : Fly wheel
C : Crank shaft	D : Oil pumps
87. Which tool is used to remove the piston ring?	
A : Drift punch	B : Ring expander
C : Circle pliers	D : 'C' clamp
88. What is the purpose of the timing chain?	
A : To connect water pump pulley	B : To connect alternator
C : To connect crank or cam shaft gear	D : To connect A/C compressor
89. What is the purpose of the fly wheel timing mark?	
A : To coincide the gears	B : To set the engine timing
C: To set the F.I.P timing	D : To set the valve clearance
90. Where the fly wheel is fitted in the engine?	
A : Cam shaft	B : Crank shaft
C : Rocker arm shaft	D : Primary shaft
91. What is the speed ratio cam shaft to crank shaft?	
A : Half	B : Equal

C: Double D: Triple 92. Which instrument is used to check the tappet clearance? A: Telescopic gauge B: Screw pitch gauge C: Feeler gauge D: Wire gauge 93. Which gauge used to measure the cylinder bore weariness? A: Compression gauge B: Vacuum gauge C: Dial gauge D: Depth gauge What is the property allows a bearing to with stand impact load for a reasonable time? A: Fatigue strength B: Tensile strength C: Toughness D: Hardness 95. What is the property of bearing helps to absorb dirt and metal particles? A: Conformability B: Embed ability C : Surface action D: Thermal conductivity 96. What is the cause of excessive loading? A: Fatigue failure B: Bearing spread C: Bearing crush D: Bearing struck 97. What is the cause for uneven wear of bearings? A: Bend twist B: Excessive lubrication C: No lubrication D: Over heat 98. What is the effect of tapper and ovality of a bore? A: Compression loss B: Miss firing C: Difficult starting D: False valve timing 99. What is the material of cylinder block? A: Cast iron B: Bronze C: Brass D: Zinc alloy What is the reason for corrosion of bearing? A: Less clearance B: Water mixed with lubricant C: Over loaded D: Over heated **Answer- AUTOMOBILE** 1.C 2.A 3.D 4.C 5.D 6.A 7.B 8.D 9.C 10.B 11.C 12.A 13.A 14.D 15.C 16.A 17.B 18.D 19.D 20.A 21.C 22.C 23.A 24.C 25.A 26.B 28.B 27.A 29.D 30.A 31.D 32.C 33.A 34.C 35.A 36.A 37.A 38.C 39.C 40.B 41.B 42.B 43.D 44.B 45C 46.C 47.D 48.A 49.D 50.C 51.C 52.C

54.B

67.A

80.C

93.C

55.A

68.B

81.A

94.A

56.B

69.D

82.B

95.B

57.C

70.B

83.D

96.A

58.C

71.A

84.A

97.A

59.A

72.B

85.A

98.A

60.B

73.C

86.B

99.A

61.C

74.A

87.B

100.B

62.D

75.C

88.C

63.A

76.A

89.B

64.A

77.A

90.B

65.D

78.B

91.A

53.B

66.D

79.A

92.C