



contd.,2



## NATIONAL COUNCIL OF SCIENCE MUSEUMS BIDHAN NAGAR, KOLKATA 700091

## APTITUDE TEST FOR TECHNICIAN 'A' (MACHINIST)

Roll no.:	te:		Date: 23.07.2019 Duration: 45 minutes
<ul> <li>All questions carry</li> </ul>	t the appropriate ch y equal marks. ive mark for wrong (	oice in the answer sheet pro	vided.
The cutting tool in a. Arbor	a milling machine is l b. Spindle	held in position by c. Column d. Kne	e
<ol> <li>Which of the follow a. Cemented carbic c. High speed carbo</li> </ol>	de	erial is the hardest? b. High speed steel d. Diamond	
<ol> <li>Increase in cutting         <ul> <li>Deteriorates surf</li> <li>Improves surface</li> </ul> </li> </ol>	ace finish	b. Has no effect on surface fi d. First improves surface finis	
<ul><li>4. The angle made by known as</li><li>a. Clearance angle</li><li>c. Rake angle</li></ul>	the face of the tool a	and the plane parallel to the b b. Cutting angle d. Lip angle	ase of the cutting tool is
	d value of helix for a c. 150°	standard twist drill is d. 118°	
6. The point angle of a 10° k	a drill for drilling hard o. 29° c. 60°	d steel is d. 135 °	
in numbers from?	of the internationally o. 0 to 8 c. 1 to	accepted standard tapers. The	ne morse taper are available
8. A gear wheel has 36 a. 12 mm	6 teeth (z) and 3 mm o. 75 mm c. 80	module (m) its pitch diameter d. 108 mm	cutter?
<ul><li>a. Transmit large to</li><li>b. Provide large spe</li><li>c. Transmit higher s</li></ul>	rque eed reduction from w peeds	orm wheel drives in machines and orm shaft to worm wheel orm wheel to worm shaft	nd their accessories is to?

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10. In a planning machine the depth of cut	is given by?		
a. Adjusting tool slide	b. Rotating the feed screw of the tool holder		
c. Moving cross slide	d. Lifting the work p	piece of the tool holder	
One of the taper turning methods in lat stock is offset?	the is by offsetting the	tail stock. Which part of the tail	
a. Body b. Base	c. Carriage	d. Spindle	
12. Indexing head mechanisms work with _			
a. Rack and gear	- h W 1		
c. Two helical gears	b. Worm and worm gear		
	d. Two bevel gears		
13. The distance a drill moves into the work a. Speed of drill	for each revalution		
a. Speed of drill	b. Cutting speed of drill		
c. Feed of drill	d. Depth of drill		
	a. Depth of ann		
14. The accuracy of lathe depends on the ac	curacy of		
a. Carriage b. Bedways	c. Tail stock	d Community	
		d. Compound slide	
15. The base of the compound rest in a lath	e is graduated in		
a. cm b. mm	c. metre	d. degrees	
		a. degrees	
16. Main use of a coolant in machine tool is			
a. To minimize the friction between the	mating parts		
b. To cool the parts of the machine			
c. To wet the two mating parts			
d. To save the machine tool from heating	g		
17. Clapper box in a shaper is used to			
a. Avoid overhanging tools			
b. Lift the tool in the middle of the strok	es		
c. Lift the tool during return stroke			
d. Lift the tool during cutting stroke			
18 Which type of the Line			
18. Which type of chuck is used for self-align	ment of work?		
<ul><li>a. Magnetic chuck</li><li>b. Three jaw chuck</li></ul>			
c. Four jaw chuck			
d. None of these			
d. None of these			
19. Which of the following is well to give			
19. Which of the following is used for finishing a. Reamer b. Trammel	or polishing?		
a. Reamer b. Trammel c	Side chisel o	l. Trepanning tool	
0. The tool used to withdraw a day of			
O. The tool used to withdraw a drill from the			
a. Punch b. Key c.	Allen key d	l. Drift	



21. The process of cutting very large circular a. Counter sinking c. Trepanning	r holes by using a drill b. Reaming d. Counter boring	machine is called		
22. The is the part of the drill bit the a. Body b. Tip	at is held in the turning c. Chuck	device? d. Shank		
23. What does this drawing explain? a. Stepped hole b. Internal throc. Blind hole d. None of the				
24. In a micrometer, when the zero on the thimble is below the index line, then the zero error  a. Must be deducted from the reading  c. Must be added to the reading  d. None of the above				
25 are used for finding diameter a. Wire gauge b. Limit gauge	rs of wires and for find c. Micrometer	ing thickness of metal sheets. d. Snap gauge		
26. The extreme permissible dimensions of a. Tolerance b. Limit	a part is known as its _ c. Allowance			
27. Which thread is generally used in screw a. Buttress thread c. Square thread	jacks? b. Whitworth thread d. BA thread			
28. The pitch of a three-start thread is 2mm a. 6 mm b. 2/3 mm	n. What will be its lead? c. 1.5 mm	d. 2 mm		
29. Which of the following is NOT an alloy? a. Steel b. Brass	c. Bronze	d. Chromium		
30. 3/4 + 1/64 = a. 50/64 b. 40/64	c. 4/64	d. 49/64		
A Side of the court of the parameters	X			