BIRLA INDUSTRIAL & TECHNOLOGICAL MUSEUM

(A unit of National Council of Science Museums) 19A, Gurusaday Road, Kolkata – 700 019

Written Test for recruitment of Technician 'A' (Carpentry)

Date: 18.01.2023

Marks: 30

Time: 1 hour

Roll No:

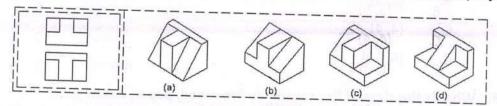
Signature:____

General Instructions:

- 1. All questions are compulsory.
- 2. To answer objective type questions put a $(\sqrt{})$ mark on the correct answer in the question paper itself from the 4 alternatives given below against each question.
- 3. To change answer, put (X) on previous answer and $(\sqrt{})$ the fresh answer.
- 4. Smart phone/smart watch are to be put on switched off mode in the examination hall.
- 5. There is no negative marking.

 $(0.75 \times 40) = 30$

- 1. The lock that cannot be operated either from inside or from outside by operating the locking arm is
 - A. Mortise lock
 - B. Rim lock
 - C. Pad lock
 - D. Night latch lock
- 2. Isometric view corresponding to this orthographic view in first angle projection is



- 3. Most common and strongest form of framing joint is?
 - A. Lap joint
 - B. Mortise and Tenon joint
 - C. Box joint
 - D. Housing joint

4.	Which o	ne among the fol	lowing medium is used in kiln seasoning?
	A.	Water	
	В.	Hot air	
	C.	Chemical	Employed to the state of the st
	D.	Smoke	
5.	Which to	ool is used for lay	ing out larger circles and arcs on the wood pieces?
	Α.	Divider	
	В.	Trammel point	s summer and the second
	C.	Spirit level	
	D.	Try square	
6.			ew chair in 3 days, working 8 hours a day. Atleast how many ork in order to make the same chair in 4 days?
	Α.	5 hours per da	у
	В.	7 hours per da	y
	C.	6 hours per da	у
	D.	10 hours per o	ay
7.	Find the		nidpoint of the line segment made by joining the points (5, -3)
	A.	(2, 2)	
	В.	(3, 5)	
	C.	(4, 4)	
	D.	(6, 10)	
8.	What is	the class of fire	aused by fire wood, paper, cloth?
	Α.	Class A fire	
	В.	Class B fire	
	C.	Class C fire	
	D.	Class D fire	
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A.	Weight		
В.	Shrinkage		
C.	Hardness		
D.	Warpage		
10. Calculate	e the volume in cubic mete	r of a wooden plank of size 500 x 1000 x 50 mr	n
Α.	0.25	American A	
В.	0.025		
C.	0.0025		
D.	None of the above		
	perating a thickness plan plade to the finger?	ner, what is the minimum safe distance fro	n
Α.	100 mm from cutters		
В.	50 mm from cutters		
C.	10 mm from cutters		
D.	1 mm from cutters		
12. Which is	s the composition of white	lead and zinc mixed with linseed oil?	
A.	Paint	A Making smail holes	
В.	Stain		
C.	Polish	C. Making lange holes	
D.	Varnish		
13. What is	the grinding angle of firm	er chisel?	
A.	10° - 15°		
В.	15° - 20°		
C.	20° - 25°		
D.	25° - 30°		
		Page – 3	

from

9. The purpose of seasoning is not to reduce

14. What is the tool used to check the surface and squareness of edge?

- A. Try square
- B. Bevel square
- C. Plumb bob
- D. Standard wire gauge

15. Which type of joint is used for fixing shelves?

- A. Housing joint
- B. Scarf joint
- C. Bridle joint
- D. Halving joint

16. One cubic metre is:

- A. 100 cft
- B. 35.315 cft.
- C. 25.48 cft
- D. 10.76 cft.

17. What is the advantage of bradawl?

- A. Making small holes
- B. Making deep holes
- C. Making large holes
- D. Making shallow holes

18. Which is an oil preservative?

- A. Tar
- B. White arsenic
- C. Sodium fluoride
- D. Zinc chloride

19.	Which t	ype of grain on wood is suit	able for furniture?
	Α.	Straight grain	
	В.	Cross grain	
	C.	Interlock grain	
	D	Maynograin	

20. What is the special purpose of copper and brass nails?

- A. Roofing
- B. Packing
- C. Boat building
- D. Railway sleeper's

21. What is the maximum limit of size if size on drawing is 20^{-12}_{-21} ?

- A. 19.988
- B. 19.979
- C. 20.012
- D. 20.021

22. Which dimension is measured by using screw thread micrometer?

- A. Pitch of screw thread
- B. Minor dia of screw thread
- C. Major dia of screw thread
- D. Mean dia of screw thread

23. Which type of thread is used in screw jack?

- A. Vee thread
- B. Acme thread
- C. Knuckle thread
- D. Square thread

Α.	1°	
В.	5°	
C.	5'	
D.	5"	
26. Acid rai	in is caused due to pollution of atmosphere by	
Α.	Oxides of nitrogen and sulphur	
В.	Oxides of nitrogen and phosphorus	
C.	Oxides of carbon and nitrogen	
D.	Oxides of nitrogen and methane	
27. What is	the material used to manufacture bench vice?	
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27. What is	the material used to manufacture bench vice? Tool steel	
27. What is A. B.	the material used to manufacture bench vice? Tool steel High carbon steel	
27. What is A. B. C. D.	the material used to manufacture bench vice? Tool steel High carbon steel Medium carbon steel	
27. What is A. B. C. D.	the material used to manufacture bench vice? Tool steel High carbon steel Medium carbon steel Cast iron	
27. What is A. B. C. D. 28. Find the	the material used to manufacture bench vice? Tool steel High carbon steel Medium carbon steel Cast iron HCF of 54, 288, 360:	
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24. Which file is used for sharpening the teeth of wood working saws?

A.

В.

C.

D.

Barrete file

Tinker s file

Mill saw file

Riffler file

A.	54	
В.	108	
C.	216	
D.	432	
30. Find the	simple interest on Rs. 5200	for 2 years at the rate of 6% per annum:
Α.	450	
В.	524	
C.	600	
D.	624	
31. Evaluati	on of $8^2 \times 8^3 \times 8^{-5}$ is:	
Α.	1	
В.	0	
C.	8	
D.	None of these	
32. Which t	ool is used to make small cu	rves in confined space?
A.	Rip saw	1,002 \$
В.	Compass saw	
C.	Cross cut saw	
D.	Firmer chisel	
33. Which sa	aw is used for cutting the thick	wood perpendicular to the grain?
Α.	Tenon saw	H-V
В.	Dovetail saw	
C.	Cross cut saw	
D.	Rip saw	
34. What is t	the use of plumb bob?	
Α.	To measure the plainness	ISHOUN A
В.	For cutting	
C.	To measure straight length	in the second se
D.	None of these	
	8-6167	Page – 7

29. What will be the LCM of 8,24,36 and 54:

									500		
26	To	maka	tho	adaa a	funadan	hoard	ctraight	and	causes is	Lungua	
50.	10	make	LITE	cuge c	of wooden	Duald	Straight	anu	square	KIIOWII	dS.

- A. Wainscot
- B. Shooting
- C. Groove
- D. Plaining

37. Which is the lowest part of the window frame:

- A. Panal
- B. Horn
- C. Sill
- D. Bottom rail

38. Calculate the volume of the wooden plank of size 15'x9"x8":

- A. 7.5cu.ft
- B. 8.5 cu.ft
- C. 7 cu.ft
- D. 8 cu.ft

39. Which timber is closely grained, hard and durable?

- A. Kail
- B. Chair
- C. Teak
- D. Deoder

40. Which material is used to manufacture blade of chisel?

- A. Mild steel
- B. Carbon steel
- C. Low carbon steel
- D. Forged tool steel