

SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES & TECHNOLOGY THIRUVANANTHAPURAM—695 011, INDIA.

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ROLL	NUMBER	

WRITTEN TEST FOR THE POST OF TECHNCIAN (FITTER) - A To B

DATE: 19/03/2024

TIME: 9.30 to 10.30 AM

DURATION: 60 MINUTES

Total Marks: 50

INSTRUCTIONS TO THE CANDIDATES

- 1. Write your Roll Number on the top of the Question Booklet and in the answer sheet.
- 2. Each question carries 1 mark.
- 3. There will not be any Negative Marking.
- 4. Write legibly the alphabet of the most appropriate answer (A, B, C or D) in the separate answer sheet provided.
- 5. Over-writing is not permitted.
- 6. Candidate should sign in the question paper and answer sheet.
- 7. No clarifications will be given.
- 8. Candidate should hand over the answer sheet to the invigilator before leaving the examination hall.

Signature of the Candidate

(au)=

MFCP-1 TECHNICIAN (FITTER)

1. State	e which of the following is used for permanent fastening. a. Stud	c. Pin
	b. Key	d. Rivet
2. Gear	rs used for connecting intersecting shafts? a. Helical Gear b. Bevel Gear	c. Spur Gear d. Rack and Pinion
2 The	difference hotographs manipulation and minimum size limit	in to collect
3. The	difference between the maximum and minimum size limi a. Clearance	c. Limit
	b. Tolerance	d. Allowance
·4. Load	ds applied parallel to the axis of the bearing are called a. Thrust Loads b. Shear Loads	c. Concentric Loads d. Central loads
5. The	instrument used for precision measurement of angles	
	a. Vernier Caliper b. Micrometer	c. Universal Bevel Protractor d. Combination Set
6. The	type of drill used for general-purpose drilling work is	
	a. Type H	c. Type S
	b. Type F	d. Type N
7. The	radial height of a tooth above the pitch circle is called a. Centre Distance	c. Addendum
	b. Rack	d. Dedendum
8. The	suitable cutting fluid for drilling the M.S plate is	
	a. Soluble Oil b. Water	c. Compressed Air d. Soap solution
		•
9. The	cutting tool used to finish and enlarge a hole is known as a. Drill	c. Die
	b. Tap	d. Reamer
10. A ø	grinding wheel marked with 'C' is made with abrasive	
	a. Aluminum Oxide	c. Diamond
	b. Silicon Carbide	d. Corundum
	ou must select a grinding wheel with suitable abrasive to grasive you will select?	grind glass. What is the type of
	a. Diamond b. Emery	c. Quartz d. Silicon Carbide
61 W 32.00	*	d. Shicon Carolde
12. Sna	a. Filing	a Chinning
	b. Hacksawing	c. Chipping d. Grinding

13. The calculated tap drill size for an internal thread of M	12 with 1.75 pitch is	
a. 10 mm	c. 12 mm	
b. 13.75 mm	d. 10.25 mm	
14. The operation of sharpening a grinding wheel is called	5.1	
a. Dressing	c. Balancing	Cl. · · ·
b. Trueing	d.	Shaping
15. The operation of producing patterns on the cylindrical e	external surface by pressing a to	ol is known as
a. Boring	c. Taper Turning	or is known as
b. Turning	d. Knurling	
	o. Ithuring	
16. The tool used to cut external thread is known as		
a. Tap	c. Die	
b. Drill Bit	d. Reamer	
17. The process of enlarging and finishing previously drille	ed holes to accurate sizes using a	a multipoint
tool is	3	I
a. Boring	c. Reaming	
b. Counter Boring	d. Tapping	
F-0	11 8	
18. If a thread is designated as M12 X 1.25, then 1.25 designated	gnates the	
a. Diameter of the thread		
b. Pitch of the thread		
c. Angle of the thread		
d. Distance between crest and roof of the thread		
19. Drill chucks are fitted on the drilling machine spindle b	y means of	
a. Pinion and key	c. Knurled ring	
b. Drift	d. Arbor	
20. Ability of a material to withstand shock and impact		
a. Toughness	c. Hardness	
b. Brittleness	d. Ductility	
21. The first tap, second tap, and bottoming tap differ in	a. Ductifity	
a. Thread size	c. Taper lead	
b. Thread pitch	d. Type of thread	
22. One of the following is not a work-holding accessory o		2
a. Faceplate	c. Mandrel	
b. Catch plate	d. Self-centering chuck.	
o. Caten plate	d. Sen-centering chuck.	
23. What percentage (%) of 72 is 18?		
a. 4	c. 40	
h 30	4.25	

c. Half Round

d. Round

34. The shape of a rasp cut file is

a. Triangular

b. Flat

35. The Ball peen Hammer is generally used for				
a. Wedging	c. Bending			
b. Riveting	d. Rem	noving nails		
36. Name the instrument for checking the gap between matir	ng narts			
a. Feeler Gauge		t Gauge		
b. Radius Gauge		l Gauge		
37. Which of the following represents a bi-directional valve				
a. Check valve		c. Non-Return Valve		
b. Butterfly Valve	d. None of the above			
38. A gasket is primarily employed for		8		
a. Reducing the speed		c. Reducing the torque		
b. Providing leak-tight joint		ucing the wear and tear		
5 5 3	- 1	3		
39. Which among the following is not the unit of pressure				
a. Pascal	c. Joule	e		
b. Bar	d. Torr	Control of the same of the same		
40. Which valve is used for flow in One Direction only				
a. Check Valve	c. Butt	erfly Valve		
b. Globe Vale	d. Gate	Valve		
41. What is the momentum of a body				
a. Force x Velocity	c.	Mass x Acceleration		
b. Mass x Velocity	d.	Moment of Inertia x velocity		
42. The unit of Energy is				
a. Watt	c.	Joule		
b. Newton	d.	Newton per meter		
43. Kelvin is the unit of				
a. Power	c.	Density		
b. Energy	d.	Temperature		
44. In gas welding, the gas mixture used is				
a. Oxygen-Hydrogen	c.	Oxygen-Propane		
b. Oxygen-Acetylene	d.	Oxygen-Coal Gas		
45. The commonly used gas for TIG welding is				
a. Argon	c.	Acetylene		
b. Hydrogen	d.	None of the above		

a. Screw c. Reciprocating b. Scroll d. Rotary Vane 47. The term S S Valve in Medical Gas system is a. Stainless Steel c. Self-Screw b. Self-Sealing Valve d. None of the above 48. The process of making cup-shaped components from sheet metal blanks is called a. Drawing c. Extrusion b. Spinning d. Piercing 49. Dowel pins are used for a. Measurement of depth of the hole c. Hidden Fastening b. Measurement of the diameter of the hole d. None of the above 50. The angle of prick punch is a. 90° c. 45° b. 60° d. b. 30°

46. The Vacuum Pump installed in SCTIMST is

Name of category: Technician Fitter

ANSWER KEY

		ANDV	ENKEI		
1	d	21	c	41	b
2	b	22	b	42	c
3	b	23	d	43	d
4	a	24	c	44	b
5	c	25	a	45	a
6	d	26	d	46	c
7	c	27	b	47	b
8	a	28	c	48	a
9	d	29	c	49	c
10	b	30	a	50	d
- 11	a	31	a		
12	d	32	d		
13	d	33	b		
14	a	34	c		
15	d	35	d		
16	c	36	a		
17	c	37	b		
18	b	38	b		
19	d	39	c	N.	
			81		

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