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ROLL NUMBER

**WRITTEN TEST FOR THE POST OF TECHNICIAN (FITTER) – A To B**

DATE: 26/03/2025

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

o/c

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26/3/25



श्री चित्रा तिरुनाल आयुर्विज्ञान और प्रौद्योगिकी संस्थान, त्रिवेंद्रम, केरल- 695 011  
(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)  
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**1<sup>st</sup> MFCP Technician Fitter A to B**

Duration:60 minutes

Max. Marks: 50

(Select the most appropriate answer)

(There are **no negative** marks for wrong answers)

1	The tool, which is used for laying out large circles is	
	a	Trammel
	b	Divider
	c	Jenny Caliper
	d	Scriber
2	The point angle of centre punch is	
	a	30°
	b	60°
	c	90°
	d	120°
3	Scriber is made of	
	a	Copper
	b	High Carbon Steel
	c	Mild Steel
	d	Cast Iron
4	The jaws in this type of wrench open parallel with the help of a screw thus providing suitable for all sizes of nuts. These are	
	a	Pipe Wrenches
	b	Monkey Wrenches
	c	Socket Wrenches
	d	Allen Wrenches
5	Which one of the following types of hammers is used for forming a rivet head by spreading the shank of the rivet?	
	a	Soft Hammer
	b	Straight Peen Hammer
	c	Cross Peen Hammer
	d	Ball Peen Hammer
6	To convert the linear motion of the plunger of a dial test indicator to the rotary motion of the pointer which one of the following mechanisms is used?	
	a	Quick Return Mechanism
	b	Rack and Pinion Mechanism
	c	Screw Thread Mechanism
	d	Hydraulic Mechanism

7	The angle which is less than $90^\circ$ is called	
	a	Obtuse Angle
	b	Right Angle
	c	Acute Angle
	d	None of the Above
8	A micrometer has a positive error of 0.02mm. What is the correct reading when the micrometer measures 25.41mm?	
	a	25.39mm
	b	25.37mm
	c	25.43mm
	d	25.45mm
9	Micrometer works on the principle of	
	a	Screw
	b	Bolt
	c	Stud
	d	Nut and Bolt
10	Which one of the following instruments is used to measure accurately the angle of taper?	
	a	Bevel Gauge
	b	Bevel Protractor
	c	Vernier Bevel Protractor
	d	Taper Gauge
11	A cutting tool used to cut outside threads is called	
	a	Drill
	b	Die
	c	Reamer
	d	Tap
12	Which one of the following designations does NOT denote the grade of a file?	
	a	First Cut
	b	Second Cut
	c	Bastard
	d	Smooth
13	Drill Chucks are held on the machine spindle by means of	
	a	Arbor
	b	Drift
	c	Draw in Bar
	d	Chuck Nut
14	The process of enlarging the end of an existing hole to accommodate the head of socket screw is called	
	a	Spot Facing
	b	Boring
	c	Counter Boring
	d	Counter Sinking
15	Second Cut of a file is the type of	
	a	Section
	b	Cut
	c	Design
	d	Grade

16	Gate Valve is used in pipe line to let water flow in
	a One Direction
	b Two Directions
	c Three Directions
	d Four Directions
17	Chain Slings are used for
	a Light Loads
	b Medium Loads
	c Heavy Loads
	d None of the Above
18	Which among the following is used for extending the length in straight line by joining two different diameter pipes?
	a Union
	b Flange
	c Reducing Socket
	d Socket
19	Galvanizing is providing a protective coating on mild steel of the metal
	a Tin
	b Aluminium
	c Lead
	d Zinc
20	Globe Valve is used in pipe line to let water flow in
	a One Direction
	b Both Directions
	c Three Directions
	d None of the above
21	The Correct colour for oxygen and acetylene hoses are
	a Black for Oxygen and Maroon for acetylene
	b Red for Oxygen and Blue for acetylene
	c Black for Oxygen and Red for acetylene
	d Red for Oxygen and Maroon for acetylene
22	The arc utilized in electric arc welding is a
	a High Voltage, High Current Discharge
	b Low Voltage, Low Current Discharge
	c Low Voltage, High Current Discharge
	d High Voltage, Low Current Discharge
23	The correct flame for preheating before cutting is
	a Oxidizing Flame
	b Neutral Flame
	c Carburizing Flame
	d Slightly Carburizing Flame
24	The Horizontal feed, Cross Feed and screw cutting movement in a lathe is controlled by
	a Headstock
	b Tailstock
	c Cross Slide
	d Apron

25	The least count of a Vernier caliper is	
	a	0.10mm
	b	0.01mm
	c	0.05mm
	d	0.02mm
26	Lock nut in the micrometer is provided to	
	a	Control the movement of the spindle
	b	Lock the reading after setting it over the work piece
	c	Measure the work piece accurately
	d	Lock the micrometer when it is not in use
27	Ratchet stop in the micrometer helps to	
	a	Lock the Spindle
	b	Adjust Zero error
	c	Control the pressure
	d	Hold the work piece
28	The least count of a metric micrometer is	
	a	0.10mm
	b	0.01mm
	c	0.50mm
	d	0.05mm
29	A grinding wheel marked with 'C' is made with the abrasive	
	a	Silicon Carbide
	b	Aluminium Oxide
	c	Corundum
	d	Diamond
30	Which one of the following is a temporary joint?	
	a	Welded Joint
	b	Riveted Joint
	c	Soldered Joint
	d	Press Fit Joint
31	Loads applied parallel to the axis of the bearings are called	
	a	Thrust Loads
	b	Eccentric Loads
	c	Concentric Loads
	d	Central Loads
32	Journal bearings are sometimes called	
	a	Flexure Bearings
	b	Antifriction Bearings
	c	Friction Bearings
	d	Jewel Bearings
33	Which one of the following parts of a ball bearing is mounted to the housing and is stationary?	
	a	Rolling Element
	b	Cage
	c	Inner Race
	d	Outer Race

34	Which one of the following parts of a ball bearing is mounted on the rotating shaft and tends to rotate the shaft?	
	a	Rolling Element
	b	Cage
	c	Inner Race
	d	Outer Race
35	The distance through which a screw thread advances axially in one turn is called	
	a	Pitch of Thread
	b	Lead of Thread
	c	Depth of Thread
	d	Diameter of Thread
36	The dimension of a nut is expressed in term of	
	a	Head of the Bolt
	b	Pitch Diameter of the Bolt
	c	Core Diameter of the Bolt
	d	Nominal Diameter of the Bolt
37	A feeler gauge is used for	
	a	Adjusting the parts for play
	b	Checking the gap between mating parts
	c	Checking radii of jobs
	d	Checking accuracy of holes
38	A taper ring gauge is used for checking	
	a	External taper
	b	Internal Taper
	c	External Threads
	d	Internal Threads
39	Preventive maintenance is	
	a	The overall lubrication and repair work carried out by the maintenance section in advance of the machine coming to breakdown.
	b	The maintenance work for any fault noticed during working
	c	Done to prevent the routine maintenance of machines
	d	None of the above
40	Which of the following are used to run chains?	
	a	Splines
	b	Sprockets
	c	Couplings
	d	Trunions
41	In case of arc welding one should p[protect his eyes by using	
	a	Dark Green Glass
	b	Sun Goggles
	c	Mask
	d	Clear Glasses
42	While grinding one must use	
	a	Dark Green Glass
	b	Sun Goggles
	c	Safety Goggles
	d	Clear Glasses

43	Fire is a Combination of	
	a	Fuel, light and Oxygen
	b	Fuel, Heat and Oxygen
	c	Fuel, Heat and Carbon Dioxide
	d	Fuel, Heat and Nitrogen
44	Gun Metal is an alloy of Copper	
	a	Tin and zinc
	b	Lead and Zinc
	c	Zinc and Nickel
	d	Lead and Nickel
45	Rust is formed from Iron and Which other component	
	a	Hydrogen
	b	Nitrogen
	c	Oxygen
	d	Sulphur
46	The required Vacuum Pressure at the terminal Unit in Medical Gas Applications is	
	a	4 Bar
	b	30 Psi
	c	300 Bar
	d	300mm Hg below atmospheric pressure
47	The first tap, second tap and bottoming tap differ in their	
	a	Thread Size
	b	Taper Lead
	c	Thread Pitch
	d	Type of Thread
48	The shape of a rasp cut file is	
	a	Flat
	b	Round
	c	Half Round
	d	Triangular
49	Which among the following is a chemical property of Metal?	
	a	Corrosiveness
	b	Conductivity
	c	Hardness
	d	Elasticity
50	Difference between the maximum and minimum limit of size is known as	
	a	Clearance
	b	Tolerance
	c	Limit
	d	Allowance



**ANSWER KEY, MARCH 2025**  
**Technician Fitter A to B**

Q No.	Choice	Q No.	Choice
1	A	26	B
2	C	27	C
3	B	28	B
4	B	29	A
5	D	30	D
6	B	31	A
7	C	32	C
8	A	33	D
9	D	34	C
10	C	35	B
11	B	36	D
12	A	37	B
13	A	38	A
14	C	39	A
15	D	40	B
16	A	41	A
17	C	42	C
18	C	43	B
19	D	44	A
20	B	45	C
21	A	46	D
22	C	47	B
23	B	48	C
24	D	49	A
25	D	50	B

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Kan J  
26/3/25