Question Booklet No.

001311

Skill Development and Entrepreneurship Department **Directorate of Vocational Education and Training** Directorate of Skill Development, Employment and Entrepreneurship Question Paper Group Name: Mechanical-1

Question Paper Post Names: Craft Instructor-Draftsman (Mechanical)

uestions: 40
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Duration: 60 Minutes			Fotal	Que	stion	s: 40			
	INSTRUCTIONS					·	•		
1.	This Question Paper Booklet contents 40 mandatory questions. Candidate sho ensure that it contents all pages and questions before starting to answer. If o printing/ binding/ incomplete pages etc, candidate should immediately get invigilator.	candid	ate f	inds a	any p	roble	m per	tainin	g to
2.	Candidate has to write his/ her seat number in this block.		ļ		1			ļ	ļ
3.	The Question Booklet Number as printed above should be mentioned at the appropriate place on the OMR Answer Sheet.	<u>L</u>	<u></u>	l	<u> </u>	L	<u> </u>	<u>. </u>	
4.	All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate she mention the Option Number on the OMR Answer Sheet in front of the respect								
	Option Number with <u>BLACK INK BALL POINT PEN</u> Only.								
5.	All Questions carry equal marks i.e. 1 Question has a weightage of 1 marks. Cathe examination and solve the questions accordingly.	ndidat	e sho	ould r	nind t	he av	ailabl	e time	e for
6.	The option shaded once on the OMR Answer Sheet should not be roughed or should take utmost care while marking their options on OMR Answer Shee								

- rough/ change options shall not be checked by the authorities. 7. Marks shall be awarded to the correct answers only during the evaluation of the OMR Answer Sheet. No marks shall be deducted for registering wrong answers (shading wrong option) or not attempting questions. Thus there is NO **NEGATIVE MARKING SYSTEM.**
- 8. All the rough work has to be done on the sheet provided for Rough Work in the Question Booklet only. Writing anything on the Question Paper Booklet, OMR Answer Sheet or any other Paper Sheet shall be treated as an unfair means and entitle for action under "Prohibition of Unfair Practices during examination Ordinance - 1982".
- 9. Method of Shading the Correct Option on the OMR Answer Sheet:

Q.No. 25.How many Centimeters make 1 Meter?

(1) 10 (2) 100

1000 (3)

10000 (4)

The Correct Option for this Question is (1) and hence the (2) option on the OMR Answer Sheet in front of Question Number 25 has to be shaded as following

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Correct Method of Shading

Wrong Method of Shading

USE ONLY BLACK INK BALL POINT PEN FOR SHADING

IMPORTANT

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THIS QUESTION PAPER BOOKLET AND PART - 1 OF OMR ANSWER SHEET HAVE TO BE SUBMITTED TO THE INVIGILATOR AFTER THE EXAMINATION.

1. X: I represents that	
1. Reduction Scale	2. Enlarged Scale
3. Full Scale	4. Plain Scale
2. The ratio of isometric length to the true length	is
1. 0.9135	2. 0.9153
3. 0.8165	4 0.8156
3. Couic section, famed by cutting plane inclined through a base is called	to the axis (Not parallel to the generator) and passes
1. Parabola	2. Cycloid
3. Ellipse	4. Hyperbola
4. If a ball is thrown in the sky, and it drops at the the path followed by the ball is	certain distance from a point where it is thrown, then
1. Parabola	2. Hyperbola
3. Cycloid	4. None of above
5. Dimensions of features are taken from datum/	common origin is called
1. Chain dimensioning	2. Parallel dimensioning
3. Combined dimensioning	4. Running dimensioning
6. In side view of visible screw threads, crest diam	neter should shown by
1. ¾ Circle	2. ½ circle
3. Full circle	4. Double circle
7. The suitable thread form for toothpaste cap is	
1. Square	2. Acme
3. Knuckle	4. Buttress

1. Parallel line method	2. Radial line method
3. Triangulation method	4. None of above
9. If a 60° inclined cutting plane (to H.P) cut obtained is	tting a long vertical cylinder through its center, the true shape
1. Parabola	2. Ellipse
3. Tringle	4. Hyperbola
10. The side view of the object appears on	
1. AVP	2. AHP
3. HP	4. VP
11. The ratio of pitch and lead for quadrup	le start thread is
1. 4	2. 1/4
3. 1/8	4. ½
12. Radius of woodruff key is(d-di	ameter of shaft)
1. d/4	2. d/6
3. d/8	4. d/3
13. Sirclips are also called.	
1. Circular rings	2. Pilot rings
3. Washers	4. Retaining rings
14. This symbol is used to represent	sent
1. Fillet weld on one side of T.	2. Double v-Butt joint
3. Weld all round T.	4. Fillet weld each side of T

8. The development of surfaces of a frustum of a cone can be drawn with

15. Chaeellcing and fullesing is process of	
1. Making the rivetled joint leak proof.	2. Making the rivetled joint of equistrength
3. To enliance the efficiencey of rivetled joi	int 4. To maintain the distance between two rooms.
16. The general formula to find the diameter (d) of	f rivet for plate thickness t in mm.
1. 104 √ℓ	2.6 √1
3. 8 √ <i>t</i>	4. 2.8 √ℓ
17. The intentional difference left between the two	o mating surfaces of assembly is called
1. Tolerance	2. Fit
3. Allowance	4. Fundamental deviation
18. For joining two mis-aligned shaft the following	coupling is used
1. Muff coupling	2. Oldham's coupling
3. Flanged coupling	4. Friction grip coupling
19. Carburetor is a part of	
1. High speed diesel engine	2. S.I engine
3. C.I engine	4. CRDI engine
20. While hatching the assembly, the mating parts	are shown with;
1. Hatching in different directions	2. By changing the distance in hatching
3. A & B	4. None of above
21. In S.I engine the ignition of fuel takes place due	e to
1. High temperature	2. Injection of fuel
3 Snark nlug	4. High compression ratio

22. Function of piston ring is					
1. To form gas tight seal between the piston & the cylinder					
2. To transfer the heat from the combi	2. To transfer the heat from the combustion chamber to the piston & cylinder				
3. To control the lubrication between piston & the cylinder walls					
4. All above	4. All above				
23. The task of cam shaft is to					
1. Provide motion to piston 2. To drive valve train to operate the valve at correct moment.					
3. To disengage driving & driven shaft	4. To provide electric current to spark plug				
24. The command used to produce multi object efficiently in CAD					
1. Copy	2. Arrey				
3. Make block	4. Layer				
25. How many methods, can be used to draw the circle in CAD					
1. 3	2. 4				
3. 5	4. 6				
26. The command used to breaks a compound object into component object is					

1. Break

2. Trim

3. Explode

4. Divide

27. Auto CAD is a package suitable for

1. Only 2D

2. Only 3D

3. 2D & 3D

4.3 ½ D

28. Which is not a part of geometric modeling?			
1. Wireframe modeling	2. Surface modeling		
3. Solid modeling	4. Object modeling		
29. Efficiency of gear train is about			
1. 50%	2. 67%		
3. 88%	4. 99%		
30. Pulley is used along with			
1. Ropes	2. Belts		
3. Chains	4. 1 & 2		
31. Carburetor is used to supplyto en	gine		
1. Air	2. Fuel		
3. Air & Fuel mixture	4. Air & Lubricating oil		
32. Snap gauges are used to check			
1. Shaft	2. Hole		
3. Gap	4. Taper		
33. A special device which holds, supports locates a	and also guides the cutting tool is called		
1. Fixture	2. Jig		
3. Clampling plate	4. Indexing head		
34. In lever loaded safety valve the weight attached	d depends upon		
1. Intensity of pressure	2. Length from fulcrum		
3. Length of lever	4. All above		

35. Tail stock in lathe machine is used to	
1. To support other end of work piece	2. To hold tool for perferuing operation
3. 1 & 2 above	4. None of above
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36. This convention is hydraulic is used for	
1. Valve	2. Blow off cock
3. Pump	4. Jack
37. In 3-2-1 pin method of location, 3 pins are u	ısed
1. In left side	2. Top side
3. Bottom side	4. Front side
38. In Screw jack, the threads used on the screw	w is
1. V	2. Square
3. Metric	4. Knuckle
39. The command used in CAD to round the ou	ter edges of the part is
1. Fillet	2. Chamfer
3. Trim	4. Cut
40. Following is not a pren operation	
1. Deep drawing	2. Curling
3. Blanking	4. Knurling

SPACE FOR ROUGH WORK