Question Booklet No.

000731

## Skill Development and Entrepreneurship Department Directorate of Vocational Education and Training Directorate of Skill Development, Employment and Entrepreneurship Question Paper Group Name: Mechanical-12 Question Paper Post Names: Drawing Instructor

Duration: 60 Minutes Total Questions: 40

	INSTRUCTIONS			
1.	This Question Paper Booklet contents 40 mandatory questions. Candidate should check the Question Paper Booklet an ensure that it contents all pages and questions before starting to answer. If candidate finds any problem pertaining to printing/ binding/ incomplete pages etc, candidate should immediately get the Question Paper replaced from the Invigilator.			
2.	Candidate has to write his/ her seat number in this block.			
3.	The Question Booklet Number as printed above should be mentioned at the appropriate place on the OMR Answer Sheet.			
	All the Questions are provided with 4 options as 1, 2, 3 and 4. Candidate should select the most correct Option an			
4.				
	mention the Option Number on the OMR Answer Sheet in front of the respective Question Number by fully shading the			
_	Option Number with BLACK INK BALL POINT PEN Only.			
5.	All Questions carry equal marks i.e. 1 Question has a weightage of 1 marks. Candidate should mind the available time for			
_	the examination and solve the questions accordingly.			
6.	The option shaded once on the OMR Answer Sheet should not be roughed or in any other way changed. Thus candidate the black that the same of the control of t			
	should take utmost care while marking their options on OMR Answer Sheet. Such changes if any or any attempt to			
_	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 N			
	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 anythin			
	on the Question Paper Booklet, OMR Answer Sheet or any other Paper Sheet shall be treated as an unfair means an			
	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			
	(3) 1000 (4) 10000			
	e Correct Option for this Question is (1) and hence the (2) option on the OMR Answer Sheet in front of Question			
Νι	umber 25 has to be shaded as following			
	Correct Method of Shading Wrong Method of Shading			
	USE ONLY BLACK INK BALL POINT PEN FOR SHADING			

## **IMPORTANT**

This Question Paper Booklet and OMR Answer Sheet is the property of the Department and is being handed over to the candidate for examination purpose only in the examination hall.

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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. Which of the following drawing equipment is used for supporting the drawing paper for making drawings:			
1. 'T' square	2. Large divider		
3. Drawing Board	4. Row Compasses		
2. In equilateral triangle			
1. All three sides equal	2. Two of its sides equal		
3. All three sides unequal	4. One of angle is 90°		
3. Quadrilateral having opposite sid	des equal is called as		
1. Square	2. Rectangle		
3. Rhombas	4. Parallelogram		
4. The ratio between the distances from the vertex to focus and vertex to focus and vertex to the directrix is called as			
1. Focal radii	2. Focus		
3. Eccentricity	4. Taper ratio		
5. The curve traced by a point on a called as	straight line which rolls around a circle or polygon without slip is		
1. Helix	2. Hyperbola		
3. Involute	4. Cycloid		
6. Dotted lines are used to show			
1. Section	2. Dimensions		
3. Outer edge	4. The internal details		
7. The cross-section of crane hook	can be shown by		
1. Revolved section	2. Removed section		
3. Offset section	4. Fuel section		

	1.	2.	
	3.	4.	
9. Hat	ching lines are usually drawn at an ar	ngle to the horizontal.	
	1. 90°	2. 60°	
	3. 30°	4. 45°	
10. A solid having one circular base and apex is			
	1. Cone	2. Cylinder	
	3. Sphere	4. Circle	
11. In 1 <sup>st</sup> angle method of projection the front view (elevation) is always			
	1. Below the top view	2. Above the top view	
	3. Side of top view	4. All of the above	
12. A	solid having six regular square faces i	s	
	1. Prism	2. Pyramid	
	3. Cube	4. Tetrahedron	
13. The top view shows the only two dimensions, which are			
	1. Length & width	2. Length & Height	
	3. Height & Width	4. None of the above	

8. Conventional representation of steel is

14 is the thread formed on the outside of a shaft.			
	1. Internal thread	2. External thread	
	3. Square thread	4. Splines	
15. Which of the following thread that advances into the work when turned clockwise?			
	1. Left hand thread	2. Single start thre	ad
	3. Right hand thread	4. Multiple thread	
16. Th	ne thread designated as Sq. 60 X 9 is :	4694-1968 is	
	1. Square thread of nominal dia. 60	mm & pitch 9 mm	2. Trape zoidal thread
	3. Acme thread		4. Buttress thread
17. Fa	astener used to lift the machines is		
	1. Lifting eye bolt	2. Tap bolt	
	3. Honk bolt	4. 'T' head bolt	
18. In	designation Hex bolt M20 X 75 X 1.5,	M20 represents the	<u></u>
	1. Nomenclature	2. Type of precision	n
	3. Manufacturer	4. Size of diameter	- 20
19. The nut used to prevent corrosion & leakage of fluid from the threads is			
	1. Collared nut	2. Washer	
	3. Ring nut	4. Domed cap nut	
20. W	ashers are provided to		
	1. Provide smooth bearing surface	2. Prevent leakage	•
	3. Lock the nut	4. All the above	

1. 20 mm	2. 25 mm		
3. 30 mm	4. 15 mm		
22. Calculate the pitch of rivets for 36	5 mm diameter of rivet.		
1. 101 mm	2. 108 mm		
3. 75 mm	4. 50 mm		
23. The process used to prevent leak	age through the riveted joints is		
1. Fullering	2. Rivetting		
3. Clamping	4. Tapering		
24. Double – V – Butt weld joint is represented by a symbol.			
1.	2.		
3.	4. 🛇		
25. Pipes of different diameters are joined by the use of			
1. Nipple	2. Plug		
3. Coupler	4. Reducing sockets		
26. To permit longitudinal expansion or construction of metal in pipe line due to temperature, the			
joint is used.			
1. Union joint	2. Expansion Joints		
3. Hydraulic joint	4. All of above		

21. Calculate the diameter of rivet suitable for joining plates of 25 mm thick

27. Symbol is used for the electrical device.		
1. Generator	2. Motor	
3. AC generator	4. D. C. Motor	
28. In machine drawing	lettering should never be used.	
1. Gothic	2. Roman	
3. Ornamental	4. Italic	
29. Sum of four angle in a quadr	ilateral is_	
1. 180°	2. 90°	
3. 230°	3. 360°	
30. If the angle between two line	es is less than 90° is called as	
1. Right	2. Acute	
3. Obtuse	4. Reflex	
31. The straight line perpendicular	lar to the major axis is called	
1. Focus	2. Vertex	
3. Directrix	4. Segment	
32. Circle within the circle but w	ith different centres are called as	
1. Concentric circle	2. Eccentric circle	
3. Tangent	4. Circumference	
33. The end points of major axis	on the curve are called	
1. Focus	2. Centre	
3. Directrix	4. Vertex	

34	4 triangle has all three sides unequal in length.		
	1. Equilateral	2. Obtuse angle	
	3. Right angle	4. Scalen	
35. Side face of the prism has the shape.			
	1. Rectangular	2. Triangular	
	3. Square	4. Generator	
36. Ir	n III <sup>rd</sup> angle method of projection the	object is placed in between	
	1. Ground & H. P.	2. VP & HP	
	3. 1 <sup>st</sup> quadrant	4. 2 <sup>nd</sup> quadrant	
37. la	n square nut the width across flats is		
	1. 1.5 d + 3	2. 2d	
	3. 3d	4. 2d + 3	
38. V	When the plates are placed one above	the other, the joint is called	
	1. Butt joint	2. Lap joint	
	3. Solder joint	4. All of above	
39. Metal end length of type 'B' studs is			
	1. 1d	2. 1.5 d	
	3. 2.5 d	4. 0.5 d	
40. Left hand side view is drawn to the front view in 1 <sup>st</sup> angle projections			
	1. Left	2. Below	
	3. Тор	4. Right	

## SPACE FOR ROUGH WORK