

Roll Number

SET B



INDIAN SCHOOL MUSCAT FINAL EXAMINATION ENGINEERING GRAPHICS

CLASS: XII

Sub. Code: 046

Time Allotted: 3 Hrs.

01.02.2021

Max. Marks: 70

General Instructions:

- (i) All dimensions are in millimetres.
- (ii) Missing and mismatching dimensions, if any, may be suitably assumed.
- (iii) Follow the SP: 46, 2003 revised codes. (with First angle method of projection)
- (iv) In no view of question 1, are hidden edges or lines required.
- (v) In question 4, hidden edges or lines are to be shown in views without section.
- Q1 A. Construct an isometric scale.

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- B. Draw the isometric projection to isometric scale of a Pentagonal prism of side 35 mm and height 07 65 mm resting on HP on its base with one of the base edges parallel to VP. Mark all dimensions and indicate the direction of view.
- C. Draw the isometric projection to isometric scale of combination of a cylinder (diameter 30 mm and height 60 mm) resting horizontally and centrally on the pentagonal face of a pentagonal prism (side 40 mm and height 50 mm). One of the sides of the prism is perpendicular to VP. The axis of the cylinder is perpendicular to VP. Mark all dimensions and indicate the direction of view
- Q2 a. Draw the front elevation and left side view of hexagonal bolt of nominal diameter 30 mm keeping its axis horizontal. Give standard dimensions.

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- b. Sketch freehand the front view and top view of a PAN HEAD RIVET of size M25,keeping its axis perpendicular to HP. Give standard dimension
- Q3 Answer the following Multiple Choice Questions and Print them on your answer sheet-

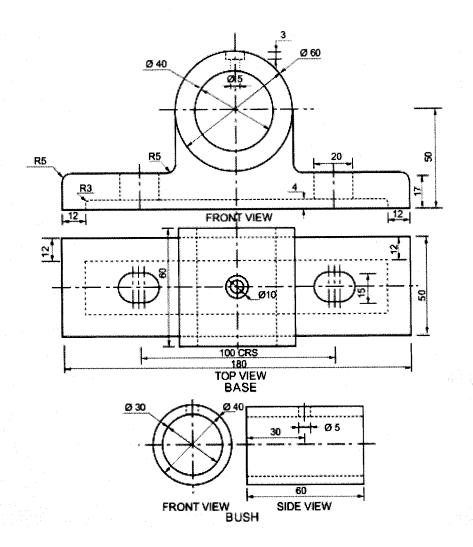
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- 1. The flanges are made thicker than pipe- walls for
 - a. Strength
 - b. Stability
 - c. Alignment
 - d. All of the above

		b. Flange pipe	
		c. Tie-rod d. Sleeve and cotter	
	3.	The part of the shaft in contact with the bearing is called	
		a. Bush	
		b. Journal	
		c. Cotter	
		d. Oil hole	
	4.	thread is used in railway carriages.	
		a. Square	
		b. BSW	
		c. Triangular	
		d. Knuckle	
	5.	The angle between true length and isometric length on isometric scale is	
		a. 30°	
		b. 15°	
		c. 25°	
		d. 60°	
Q4		gure shows the details of BUSHED BEARING. Assemble the parts correctly and draw the ving views to scale 1:1	28
	a.	Front view, full section	
		Right side view	
	Dulu4.4	title duran unainstina grandal and goale yeard. Monte all dimensions	
	Print t	title, draw projection symbol and scale used. Mark all dimensions.	

2. kind of the joint is subject to push and pull action.

a. Gib and cotter



End of the Question Paper