

Roll Number

SET C



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.

04

B. Draw the isometric projection to isometric scale of a cylinder of diameter 35 mm and height 65 mm resting on HP on its base. Mark all dimensions and indicate the direction of view.

07

13

- C. Draw the isometric projection to isometric scale of combination of a triangular prism (side=30 mm and height 60 mm) resting centrally and horizontally, on the pentagonal face of a pentagonal prism (side 40 mm and height 50 mm). One of the sides of both the prisms 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.

08

- b. Sketch freehand the front view and top view of a stud with collar neck 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-

05

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

	a.	Square	
	b.	BSW	
	c.	Triangular	
	d.	Knuckle	
4.	Th	e angle between true length and isometric length on isometric scale is	
	a.	30°	
	b.	15°	
	c.	25°	
	d.	60°	
5.		is placed below a nut to provide a flat smooth bearing surface.	
	a.	Washer	
	b.	Stud	
	c.	Rivet	
	d.	Bolt	
The f	igur ctly	e shows the details of SLEEVE AND COTTER ROD JOINT. Assemble the parts and draw the following views to scale 1:1	28
_	Ε	autuious full gootion	
		ront view, full section	
D.	K	ight side view	
Print	title	, draw projection symbol and scale used. Mark all dimensions.	

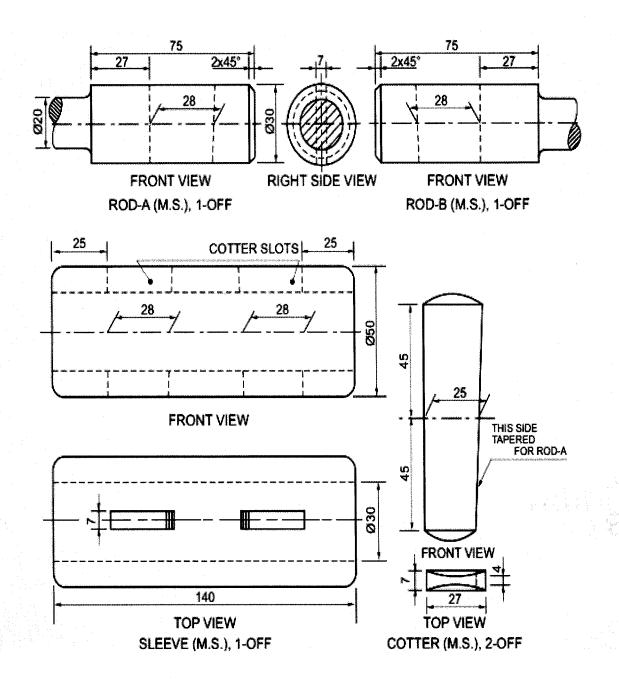
Page 2 of 3

2. The part of the shaft in contact with the bearing is called......

3. thread is used on the neck of the glass bottles.

a. Bushb. Journalc. Cotterd. Oil hole

Q4



End of the Question Paper