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Question Paper Code: 51007

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

First Semester

Mechanical Engineering

01UME107 - ENGINEERING GRAPHICS

(Common to CSE and EEE branches)

(Regulation 2013)

Duration: 1:15hrs Maximum: 30 Marks

PART A - $(6 \times 1 = 6 \text{ Marks})$

(Answer any six of the following questions)

1.	In 1st angle projection the object is kept in								
	(a) First Quadrant	(b) Second Quadran	t (c) Third Quadrant	(d) Fourth Qu	adrant				
2.	Hatching lines are dr		CO1- R						
	(a) 30	(b) 45	(c) 60	(d) 90					
3.	3. The minimum number of orthographic view required to represent a solid on a flat surface is								
	(a) 1	(b) 3	(c) 2	(d) 4					
4. Front view of a cube resting on HP on one of its faces, and another face parallel of VP, is									
	(a) Rectangle	(b) Square	(c) Parallelogram	(d) All the abo	ove				
5.	•	e of the section, it mu	1 0		CO3-U				
	(a) Profile	(b) Vertical	(c) Section	(d) Auxiliary					
5.	A cylinder is placed on H.P on its base and section plane is parallel to V.P cutting the solid the section gives								
	(a) Parabola	(b) Circle	(c) Rectangle	(d) Ellipse					

7. The development of the surface of a cube consists of _____ equal squares

CO4- R

(a) 4

(b) 6

(c) 8

(d) 12

8. The development of cylinder is a _____.

CO₄- R

- (a) Circle
- (b) Rectangle
- (c) Ellipse
- (d) None of the Above

9.. The six standard views are known as?

CO5-U

- (a) Principal views
- (b) Glass box views
- (c) Projection views
- (d) None of these

10. The intersection of two plane surfaces produces an?

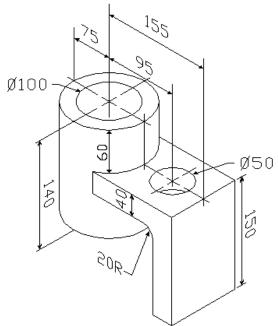
CO5-U

- (a) Edge
- (b) Oblique side
- (c) Parallel edge
- (d) All the above

$$PART - B$$
 (3 x 8= 24 Marks)

(Answer any three of the following questions)

- 11. Sketch by free hand, the following views of the object shown in CO1- App (8) Figure 1. The dimensioning is also to be made by free hand.
 - (1) the front view in the direction of the arrow
 - (2) the top view
 - (3) the right side view



12. A regular hexagonal lamina of 35 mm sides has one edge in HP CO2- App and inclined at an angle of 30° to VP. Draw its projection when its surface is inclined at 45° to HP.

13. A hexagonal prism of base side 30 mm and axis 60 mm long is rest CO3- App (8) on HP on one of its base edge and its axis is inclined at 50° to the HP and parallel to VP. Draw its front and top views

resting on H.P on its base with one of its base sides is perpendicular to V.P. It is cut by a plane inclined at 45° to H.P and perpendicular to V.P and is bisecting the axis. Draw the front

- 14. A pentagonal pyramid of base side 26 mm and altitude 52 mm is CO4- App (8)
- view, sectional top view and true shape of the section. 15. A flower vase is in the form of a frustum of a pentagonal CO5-App (8) pyramid,base 24 cm and top 40 cm side. Draw the isometric view of the flower vase, if the height is 54 cm.