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Question Paper Code : 41007

B.E./B.Tech. DEGREE EXAMINATION, AUGUST 2021

First Semester

Mechanical Engineering

14UME107 – ENGINEERING GRAPHICS

(Common to CSE and EEE branches)

(Regulation 2014)

Duration: 1:45 hour

Maximum: 50 Marks

PART A - (10 x 2 = 20 Marks)

(Answer any ten of the following questions)

1. In 1st angle projection the object is kept in _____.
(a) First Quadrant (b) Second Quadrant (c) Third Quadrant (d) Fourth Quadrant
2. Hatching lines are drawn at ____ degree to reference line.
3. The minimum number of orthographic view required to represent a solid on a flat surface is _____.
4. Front view of a cube resting on HP on one of its faces, and another face parallel of VP, is _____ .
5. To find the true shape of the section, it must be projected on a plane parallel to the _____ plane.
6. A cylinder is placed on H.P on its base and section plane is parallel to V.P cutting the solid the section gives _____.
7. The development of the surface of a cube consists of ____ equal squares
8. The development of cylinder is a _____ .
- 9.. Explain six standard views?
10. The intersection of two plane surfaces produces an?
- 11 Define circumference
- 12 Define angle of inclination
- 13 Explain front view with example

- 14 Explain top view with example
- 15 Explain about free hand sketching

PART – B (3 x 10= 30 Marks)

(Answer any three of the following questions)

16. A square lamina PQRS of side 50 mm rests on the ground on its corner P in such a way that the diagonal PR is inclined at an angle of 50 to the HP and apparently inclined at an angle of 30 to the VP. Draw its Projections CO1- App (10)
17. A pentagonal prism having a base with a 30 mm side and 60 mm long axis is resting on one of its rectangular faces on the HP with axis parallel to the VP. Draw its projections. CO2- App (10)
18. A pentagonal pyramid having a base with a 30 mm side and a 70 mm long axis is resting on its base in the HP with an edge of the base parallel to the VP. A horizontal section plane cuts the pyramid at a distance of 30 mm from the base. Draw its front view and sectional top view. CO3- App (10)
19. A square prism of base 20 mm side and height 50 mm rests on one of its ends on the HP. All the base sides of the prism are equally inclined to the VP. It is cut by a plane perpendicular to the VP and inclined at an angle of 45 to the HP that passes through a point on the axis 10 mm from the top. Draw the isometric projection of the solid. CO4- App (10)
20. Draw the elevation looking from the direct arrow F, plan and right side view, left side view from the pictorial view shown in the. CO5- App (10)

