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Question Paper Code : 41407

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

First Semester

Civil Engineering

14UME107 – ENGINEERING GRAPHICS

(Common to ALL branches)

(Regulation 2014)

Duration: 1:15hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. The outer angle of regular pentagon is ___ degree CO1- R
(a) 60 (b) 72 (c) 180 (d) 90
2. Hatching lines are drawn at ___ degree to reference line. CO1- R
(a) 30 (b) 45 (c) 60 (d) 90
3. The minimum number of orthographic view required to represent a solid on a flat surface is _____. CO2- U
(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 _____. CO2- U
(a) Rectangle (b) Square (c) Parallelogram (d) All the above
5. To find the true shape of the section, it must be projected on a plane parallel to the _____ plane. CO3-U
(a) Profile (b) Vertical (c) Section (d) Auxiliary
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 _____ CO3-U
(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. 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 (8)
12. 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 (8)
13. 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 (8)
14. 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 (8)
15. 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 (8)

