Reg. No. : | | | | | | | | | | |

Question Paper Code : 51708

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

First Semester

Civil Engineering

15UME108 – ENGINEERING GRAPHICS

(Common to ALL branches)

(Regulation 2015)

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. The end A of a line AB is 10 mm in front of VP and 20 mm above HP. The line is inclined at 30^0 to HP and front view is 45^0 with XY. Top view is 60 mm long. Draw the projections. Find the true length and inclinations with VP. Locate the traces. CO1- App (8)

12. A cone of base diameter 50 mm and axis length 60 mm is resting on HP on a point on the circumference of the base. Its base is inclined at 50^0 to HP and perpendicular to VP .Draw its projections. CO2- App (8)

13. Draw the development of the lower portion of a cylinder of diameter 50 mm and axis 70 mm when sectioned by a plane inclined at 40^0 to HP and perpendicular to VP and bisecting the axis. CO3- App (8)

14. Draw the perspective projection of a square prism of base side 40 mm and height 50 mm. One vertical face parallel to PP and 30 mm away from it. The station point is 80 mm from PP, 80 mm above the base and 60 mm to the right of the axis of the prism. CO4- App (8)

15. Draw orthographic views for the pictorial view given below. CO5- App (8)

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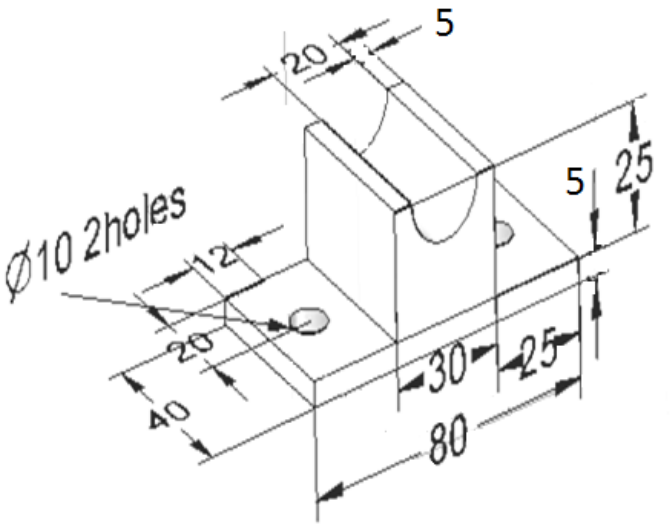

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