

Total No. of printed pages = 4

CE 171207

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Roll No. of candidate

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2018

B.Tech. 2nd Semester End-Term Examination

ENGINEERING GRAPHICS – II

(New Regulation)

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer question No. 1 and any *four* from the rest.

1. Answer the following questions (10 × 1 = 10)
 - (a) In first angle projection system, Top View is drawn
 - (i) Above Front View
 - (ii) Below Front View
 - (iii) Left of the Front View
 - (iv) Right of the Front View
 - (b) In the third angle projection method, the view seen from left is placed on
 - (i) Left of the Front View
 - (ii) Right of Front View
 - (iii) Right of Top View
 - (iv) Below Front View

[Turn over

- (c) Second angle projection is not used because
- Plan is above xy
 - both views overlap each other
 - Elevation is above xy
 - Views are small in size
- (d) Hatching/sectional lines are drawn at _____ degree to reference line
- 30
 - 45
 - 60
 - 90
- (e) 10mm length of line in isometric projection will be equal to
- 10mm
 - 8.15mm
 - 12.26mm
 - 7.07mm
- (f) In Isometric projection, the length or width of the object is drawn at _____ to the horizontal reference line.
- 30°
 - 45°
 - 90°
 - 120°
- (g) Total number of rows in each plate of a double riveted but joint is
- 4
 - 3
 - 2
 - 1
- (h) In zigzag lap joint formation, the row pitch (p_r) in terms of rivet diameter (d) is
- $p_r = 2d$
 - $p_r = 0.6d$
 - $p_r = 1.5d$
 - $p_r = 2d + 6$
- (i) The angle of Acme thread is
- 45°
 - 29°
 - 55°
 - 47.5°

4. (a) A sphere resting centrally on the top of a square prism the front view of which is shown in fig. 2. Draw its isometric projection. All the dimensions are in mm. (10+5=15)

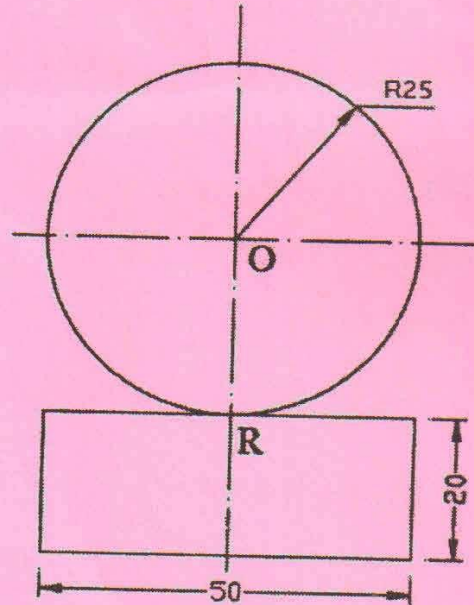


Fig. 2

- (b) Draw the isometric view of a circle of diameter 50mm whose surface is parallel to the horizontal plane.
5. Draw neatly, a sectional front view and top view of a single —riveted double straps (equal) buttjoint. Take $t = 10\text{ mm}$ and $d = 20\text{ mm}$. Show all dimensions on your sketch. (5+10=15)
6. Draw the Front view. Side view and Top view of a hexagonal nut for 24 mm diameter bolt according to approximately standard dimensions. (5+5+5=15)
7. Draw the free hand sketch (any Three) (3×5=15)
- (a) Hexagonal headed nut and bolt
 - (b) Square headed bolt
 - (c) T-headed bolt
 - (d) Eye bolt
 - (e) Double riveted lap joint.