Roll No. _____

END SEMESTER EXAMINATION
SEMESTER- I (Old Course)

COURSE CODE : G 201 | **DURATION : 3 (THREE)HRS**
COURSE TITLE : ENGINEERING DRAWING I | **MAXIMUM MARKS : 50**
SESSION : JULY-DEC.' 2021 | **PASS MARKS : 35 %**

NOTE: *1. Attempt any 5 (five) questions of 10 marks each.*
2. Mark for each question is shown against it.
3. Assume suitable logical data wherever necessary.

1. (a) Mention the types of lines used in engineering graphics with its description, Representations and its applications? **(5)**

(b) Draw the projection of line CD 50 mm long parallel to H.P and inclined to V.P. the end C is 10 mm in front of V.P and D is 30 mm in front of V.P. the line is 15 mm above H.P? **(5)**

2. (a) What is dimensioning? Explain the methods used in dimensioning? **(2+3)**

(b) Construct a diagonal scale of R.F= 1:320000 to show kilometers and long enough to measure up to 400 km. show distance of 257 km and 333 km of your scale? **(5)**

3. (a) Construct an ellipse when the major axis is 120 mm and the distance between the foci is 108mm.determine the length of the minor axis? **(7)**

(b) Draw the projection of the following points on a common reference lines: **(3)**

i) 35mm above H.P and 25mm infront of V.P.
ii) 45mm below H.P and 20mm behind V.P.
iii) 30 mm behind V.P and on H.P

4. (a) A pentagonal lamina of 40mm side has a circular hole of 30mm diameter in its center. The plane stands on one of its side on H.P with its plane perpendicular to V.P and 45° inclined to H.P. draw the projection? **(5)**

(b) Point A is 35mm above H.P and 20mm in front of V.P. draw the front, top and right side view by Mitre line method and Arc method? **(5)**

5. (a) A cricket ball thrown from the ground level reaches the wicket keeper glove. Maximum height reach by the ball is 8m. The balls travel a horizontal distance of 15m from the point of projection. Trace the path of the ball? **(5)**

(b) Explain any five terminology used in engineering scales? **(5)**

6. (a) Construct a plain scale to show meters when 1 centimeter represents 4 meters and long enough to measure up to 50 meters. Find the R.F and mark on your scale a distance of 36 meters? **(5)**

(b) A line PQ 50mm long is lying in V.P and 35mm above H.P. draw its projection? **(5)**

7. (a) Draw a hyperbola when its double ordinate is 90mm abscissa is 35mm and half the transverse axis is 45mm? **(5)**

(b) Define CAD? Write down any five commands used in AUTOCAD? **(2+3)**

8. (a) Define solids? Write down the classification of solids? **(2+2)**

(b) A hexagonal prism side of base 20mm and axis 60mm long lies with one of its rectangular faces on H.P. such that its axis is parallel to both H.P and V.P. draw its projection? **(6)**

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