

DEPARTMENT OF MECHANICAL ENGINEERING
UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, CSJMU UNIVERSITY, KANPUR

Engineering Drawing (TCA-S101) Branch CSE 1 (A-1)
Semester: 2021 –22 (Odd Semester) **Year: First Year(2K21)**
End Semester Examination

Time: 2.5 h

Maximum Marks: 50

All questions are compulsory

Section – A

Q1. Which of the following represent reducing scale?

- (a) 1:1 (b) 1:2
(c) 2:1 (d) 10 : 1

Q2. The following is not included in title block of drawing sheet.

- (a) Sheet No (b) Scale
(c) Method of projection (d) Size of Sheet

Q3. Which line type is thick and black?

- (a) Visible lines (b) Centre lines
(c) Construction Lines (d) all of the above

Q4. Which line type is thin and light?

- (a) Visible lines (b) centre lines
(c) Construction lines (d) all of the above

Q5. Which type of line is part of a dimension?

- (a) break lines (b) Phantom lines
(c) extension lines (d) cutting plane lines (5 x 2)

Section – B

Q1. A regular pentagonal plate has 25 mm side. The plate is resting on one of its corner in HP, with its surface perpendicular to VP and inclined at 45 deg to HP. Draw its projections.

Q2. An equilateral triangular lamina of side 30 mm is parallel to H.P. and perpendicular to V.P. One of its sides is 20 mm in front of V.P. and 30 mm above H.P. Draw its projections.

Q3. A regular hexagon of 40 mm side has a corner in the HP. Its surface inclined at 45 degree to the HP and the top view of the diagonal through the corner which is in the HP makes an angle of 60 degree with the VP. Draw its projections. (8 x 3)

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Section – C

Q1 . A square plate ABCD of 50mm side has one of its corner A on the ground, its diagonal AC inclined at 30° to the HP and the diagonal BD inclined at 45° to the VP and parallel to the HP. Draw its projection.

Q2. (a) Draw a parabola whose distance from focus and directrix is 50 mm.

or

(b) The top view of a 80 mm long line CD measures 68 mm, while the length of its front view is 54 mm. Its one end C is in HP and 15 mm in front of VP. Draw the projections of CD and determine its inclination with HP and VP. (8 x 2)