Total No. of Questions – [08] Total No. of Printed Pages 02

G.R. No.	

U118 – 106 (BE – FF)

DECEMBER 2018 / BACKLOG EXAMINATION

F. Y. B. TECH. (COMMON) (SEMESTER - I)

COURSE NAME: ENGINEERING GRAPHICS

(2017 PATTERN) (ME11176)

Time: [**2 Hours**] [Max. Marks: **50**]

(*) Instructions to candidates:

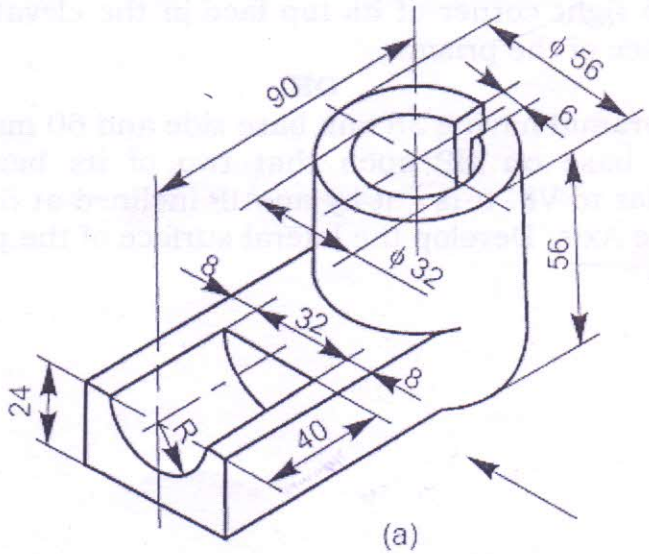
1) **Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6, Q.7 OR Q.8**
2) **Figures to the right indicate full marks.**
3) **Use of scientific calculator is allowed.**
4) **Use suitable data where ever required.**
5) **Use only half imperial size drawing sheet as answer book.**
6) **Retain all construction lines.**
7) **Marks are reserved for dimensioning and good presentation.**

Q. 1 Draw an ellipse with 80 mm long major axis and a 60 mm minor axis. Use Rectangle method. [10]

OR

Q. 2 A circular plate with radius 25 mm is resting on HP on one of its point on circumference. It is inclined to HP at an angle of 40°. Draw projections of plane if top view of diameter passing though resting point makes an angle of 60° with VP. [10]

Q. 3 Fig. 01 shows pictorial view of an object, by using first angle method of projections draw FV, TV and LHSV with dimensions.



[14]

Fig. 01

OR

Q. 4 Fig. 02 shows orthographic views of an object. Draw isometric view using natural scale

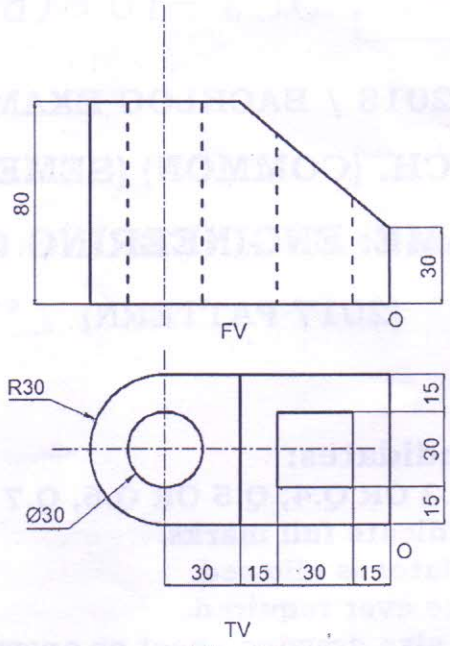


Fig. 02 [14]

Q. 5 A square pyramid with base 40 mm side and axis 70 mm long is resting on one of edge of its base. Its axis is inclined to HP at an angle of 50°. Plan of axis makes an angle of 45° with VP, draw its projections. [14]

OR

Q. 6 A square prism having side of base 30 mm and axis of length 80 mm is kept on the H.P on a corner of its base in such a way that axis makes an angle of 40° with HP. Draw the projections of the prisms if top view of axis makes an angle of 40° with VP. [14]

Q. 7 A hexagonal prism of edge base 25 mm and axis 50 mm is resting on its base on HP such that one of its rectangular face is perpendicular to VP. It is cut by an AIP inclined at 40° and passing through top right corner of its top face in the elevation. Develop lateral surface of the prism. [12]

OR

Q. 8 A Square pyramid having 35 mm base side and 60 mm axis length is kept on base on HP such that two of its base edges are perpendicular to VP. It is cut by an AIP inclined at 55° to HP and bisecting the Axis. Develop the lateral surface of the pyramid. [12]