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

G.R. No.	

U118-106 (BE-FS)

OCTOBER 2018 / BACKLOG EXAMINATION

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

COURSE NAME: ENGINEERING GRAPHICS

(2017 PATTERN) (ME111176)

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 the parabola using rectangle method having base length 80 mm and axis 50 mm. [10]

OR

Q. 2 An isosceles triangle of base 40 mm and altitude 45 mm is having its base on H.P. Plane is inclined to H.P. at angle of 50°. Draw its projections if base makes an angle of 50° with XY line [10]

Q. 3 Fig. 01 shows pictorial view of an object, by using first angle method of projections draw FV, TV and RHSV with dimensions. [14]

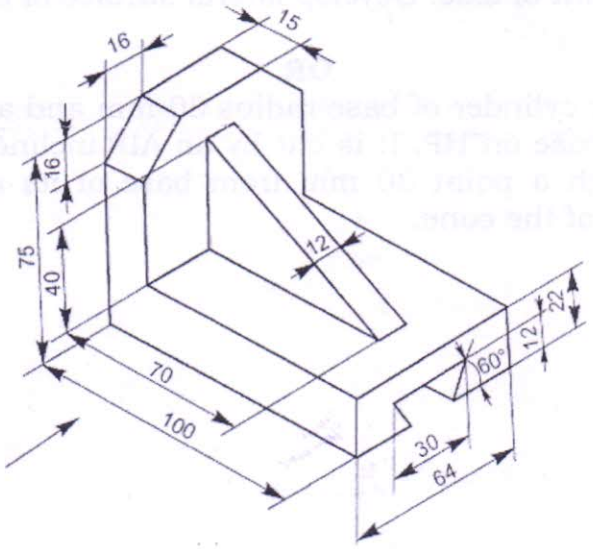
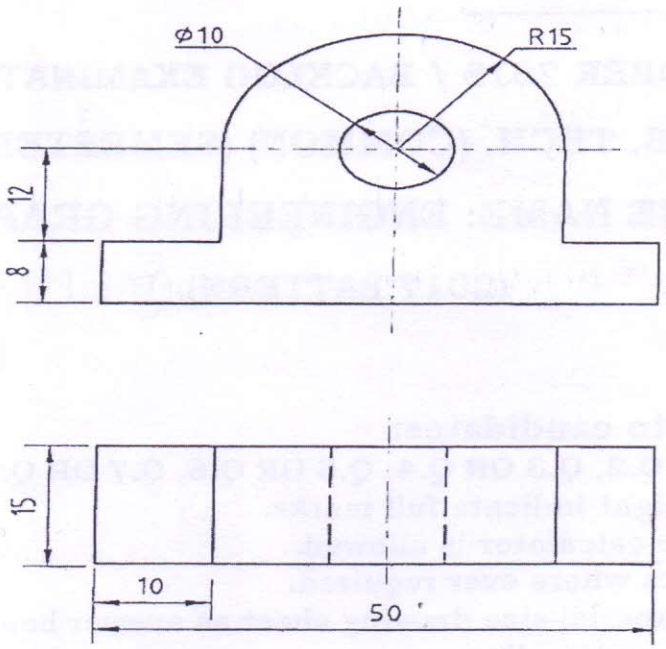


Fig. 01

OR

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



[14]

Fig. 02

Q. 5 A pentagonal pyramid, with base 35 mm side and axis 80 mm long, has one of its triangular face on HP. The plan of axis makes an angle of 45^0 with VP, draw its projections. [14]

OR

Q. 6 A cylinder with base diameter 50 mm and axis 70mm is kept on a point of its base circle. Its axis makes 55^0 with HP. Draw its projection if plan of axis makes 35^0 with VP. [14]

Q. 7 A pentagonal prism of edge 30 mm and axis 70 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 40^0 and passing through midpoint of axis. Develop lateral surface of the prism. [12]

OR

Q. 8 A right circular cylinder of base radius 30 mm and axis 80 mm is resting on its base on HP. It is cut by an AIP inclined at 30^0 and passing through a point 30 mm from base of its axis. Develop lateral surface of the cone. [12]