

Reg.No.:



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
 [AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
 Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.



Question Paper Code:1001

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – DEC. 2018 / JAN. 2019

First Semester

Computer Science and Engineering

U14GE101 / U15GE101– ENGINEERING GRAPHICS

(Common to Electrical and Electronics Engineering, Electronics and Communication Engineering, Information Technology & Biotechnology)

(Regulation 2014 & 2015)

Time : Three Hours

Maximum : 100 Marks

Answer ALL the questions

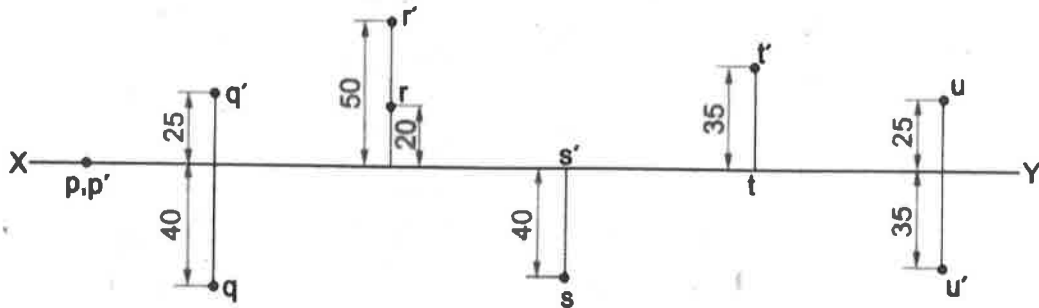
Answer ALL the questions.

(5 x 20 = 100 Marks)

1. a) A line AB 70 mm long has its end A 20 mm above HP and 25 mm in front of VP. Its top and front views measure 60 mm and 40 mm respectively. Draw the projection of the line. Find its inclinations with HP and VP.

(OR)

- b) The projections of different points are shown in figure. Define the position of the points in relation to the reference planes. The distances marked are in millimeters.



2. a) A hexagonal pyramid has an altitude 60 mm and side of base 30 mm. The pyramid rests on one of its side of the base on the HP such that the triangular face containing that side is perpendicular to HP. Draw its projections.

(OR)

- b) A pentagonal pyramid of base side 30 mm and axis length 60 mm is suspended by means of a string from one of its base corners with its axis parallel to VP. Draw its projections.

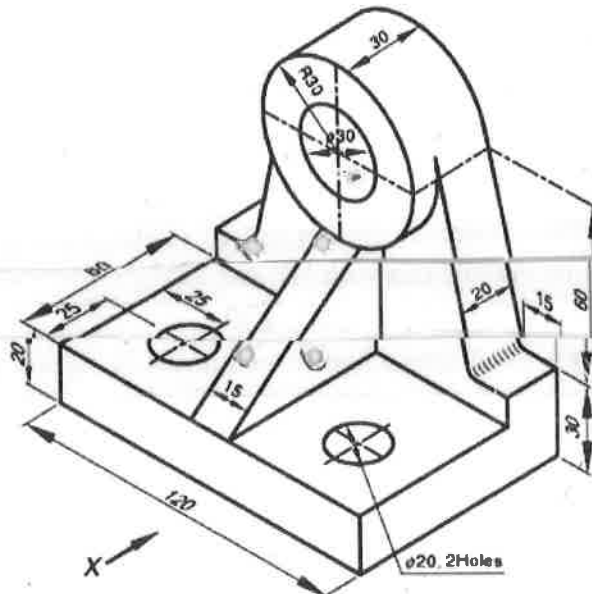
3. a) A cylinder of diameter 40 mm and axis 65 mm height is lying on the ground vertically. It is cut by a plane perpendicular to the VP and inclined at 60° to the HP and bisects the axis. Draw the front view, sectional top view and the true shape of the section.

(OR)

- b) A triangular prism of 35 mm side of base and axis 60 mm long has its base on the ground and its rectangular face is parallel and nearer to VP. A section plane perpendicular to VP and inclined at 60° to HP and passing through a point on the axis 20 mm below from the top face. Draw the front view, sectional top view and the true shape of the section.
4. a) A cone of base diameter 40 mm and slant height 60 mm is kept on the ground on its base. A plane inclined at 45° to the HP cuts the cone through the midpoint of the axis. Draw the development.

(OR)

- b) A hexagonal prism, edge of base 20 mm and axis 50 mm long, rests with its base on HP such that one of its rectangular faces is parallel to VP. It is cut by a plane perpendicular to VP, inclined at 45° to HP and passing through the right corner of the top face of the prism. Draw the sectional top view and develop the lateral surface of the truncated prism.
5. a) Draw the orthographic views from the given pictorial view.



(OR)

- b) Draw isometric view from the given orthographic views.

