

Enroll No.....

ME-11

B.Tech.–I Sem. (Reg./Ex) & II (Ex.)

Examination, March-2021

Engineering Graphics

Time: Three Hours

Maximum Marks:70

Note: Attempt any five questions. (Each question carries equal marks)

Q.1 What is CAD? List out five advantages of CAD as compared to conventional drawing.

Q.2 Draw the projection of the following points on a common reference line, keeping the distance between their projection 30 mm apart.

(a) Point A is 50 mm above the HP and 30 mm behind the VP

(b) Point B is 30 mm in front of the VP and in the HP.

Q.3 An 80 mm long line PQ, has the end p at a distance of 20 mm above the HP and 40 mm in front of the VP . The line is inclined at 30° to the HP and is parallel to the VP. Draw its projections.

(2)

Q.4 An 80 mm long line PQ is inclined at 30 degree to the VP and is parallel to the HP. The end P of the line is 20 mm above the HP and 40mm in front of the VP . Draw its projection.

Q.5 A hexagon plane with a 30 mm side has its surface parallel to and 20 mm in front of the VP. Draw its projection, when

- (a) A side is incline at 45 degree to the HP.
- (b) A side is perpendicular to the HP.
- (c) A side is parallel to the HP.

Q.6 A square plane with a 40mm side has its surface parallel to and 20mm above the HP. Draw its projection when

- a) A side is parallel to VP
- b) All side are equally inclined to VP.

Q. 7 A pentagonal prism having a base with a 30 mm side and 60 mm long axis, has one of its bases in the VP. Draw its projection when

(3)

- (a) A rectangular face is parallel to and 15 mm above the HP
- (b) A rectangular face is perpendicular to the HP.
- (c) A rectangular face is inclined at 45 degree to the HP.

- Q.8 (a) List and explain four edit commands.
- (b) Write any two design software name.

