

## Question Paper Code : 57020

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

First Semester

Mechanical Engineering

GE 6152 — ENGINEERING GRAPHICS

(Common to all branches)

(Regulation 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

(5 × 20 = 100)

1. (a) A circus man rides a motor-bike inside a globe of 6 m diameter. The motor-bike has the wheel of 1 m diameter. Draw the locus of the point on the circumference of the motor-bike wheel for one complete revolution. Adopt suitable scale.

Or

- (b) Draw the front top and side views of the component shown in fig 1(b), by free hand.

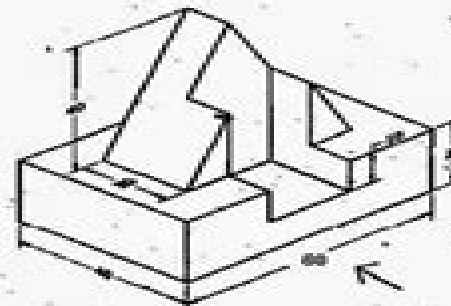


fig 1 (b)

2. (a) A straight line AB of 50 mm length has its end point A 15 mm above the HP and the end B 20 mm in front of the VP. The top view of the line is 40 mm long and the elevation is 35 mm long. Draw the projections of the line and find the true inclinations of the line with VP and the HP.

Or

- (b) An isosceles triangular plate ABC has its base edge AB 60 mm long and on the ground inclined at  $30^\circ$  to VP. The length of the altitude of the plate is 80 mm. The plate is placed so that the edge AC lies in a plane perpendicular to both the HP and VP. Draw the projections of the plate and find out the angles of inclination of the plate with the HP and VP.

# Engineering Graphics Model Question Paper Polytechnic

**AN Whitehead**



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