

This question paper contains 3 printed pages.]

Your Roll No. :

1407

A

B.Sc. (Hons.)/III

ELECTRONIC SCIENCE—Paper 3.2 (XVI)

(Engineering Drawing)

Time : 3 Hours

Maximum Marks : 38

(Write your Roll No. on the top immediately

on receipt of this question paper.)

Attempt Five questions in all, including

Question No. 1 which is compulsory.

1. (a) Write in single stroke vertical capital letters with dimensions
2.1 cm : 1.5 cm the following :

QUANTUM PHYSICS

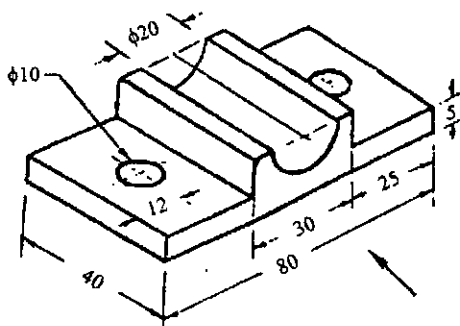
3

- (b) The distance between two stations is 600 km. It is represented
on a railway map by a line 15 cm long. Construct a diagonal scale
to measure upto a kilometre and find its RF. Indicate a distance
of 346 kilometres on the map.

7

[P.T.O.]

2. (a) Draw an ellipse by concentric circles method, given the major and minor axes 100 mm and 55 mm respectively. 3
- (b) Draw, by off set method, a parabola given its span and size as 105 mm and 75 mm respectively. 4
3. Construct an Archimedean spiral of one convolution, given the radial movement of point P during one convolution as 60 mm and initial position of P on pole O. 7
4. (a) Draw an involute to an equilateral triangle of 20 mm side. 3
- (b) Draw a single start helix of 80 mm pitch in a vertical cylinder of ϕ 50mm. 4
5. A hexagonal prism side of base 25 mm and axis 50 mm long, rests with one of its base corner on H.P. Such that its base makes an angle of 60° to H.P. and its axis is parallel to V.P. Draw its projections. 7
6. Draw the front, top and side view of the block given below : 7



7. Draw two isometric drawing of the object whose orthographic projections are given below : 7

