



S-1985

First Year B.I.D (Sem. - I) Examination
March/April - 2011
Technical Representation Drawing I

Time : 4 Hours]

[Total Marks : 120

Instructions :

(1)

नीचे दर्शाविए निशानीवाणी विगतो उत्तरवही पर अवश्य कएवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="F. Y. B.I.D (Sem. - 1)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="Technical Representation Drawing 1"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="9"/> <input type="text" value="8"/> <input type="text" value="5"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="1&2"/>	<input type="text"/>
	Student's Signature

- (2) Figures to the right indicate full marks.
- (3) The questions of different sections to attempted on separate drawing sheet/tracings and all drawings of each section are to be tied up together,
- (4) Neatness, sharpness and clarity of drawing carry separate credentials.
- (5) Hierarchy of line weight and intensity as per the necessity is a must requirement.
- (6) Read and understand the problem clearly before drafting.
- (7) Assume suitable details wherever required.
- (8) All given Fig Dimensions are in Millimeter.

SECTION-I

- 1 Answer any Two : 20
- (i) Draft letter 'R' on suitable size.
 - (ii) Show material notation in 20mm × 20mm square for given materials: r.c.c, brick, wood, steel, aggregates
 - (iii) Draw the development surface for the outside case and tray of a matchbox of size 45mm × 30mm × 15mm
 - (iv) In 20mm × 20mm square draft centerline and section line.

- 2 A tetrahedron of side 40mm rests with its base on H.P. 15
Draw its projection when it's one of the edged is perpendicular
to V.P.

OR

- 2 Draw orthographic projection of a hexagonal prism, side base
is 30mm and axis height is 70mm lies with one of its
rectangular face on H.P. such that its axis is parallel to both
H.P. and V.P.
- 3 A pentagonal pyramid, side of base 40mm and 70mm long, 25
rests with its base on H.P. such that one of the edges of base
is perpendicular to V.P. A section plane is perpendicular to
H.P. and parallel to V.P. cuts the pyramid at the distance of
20mm from the corner of the base nearer to the observer.
Draw its top and sectional view.

OR

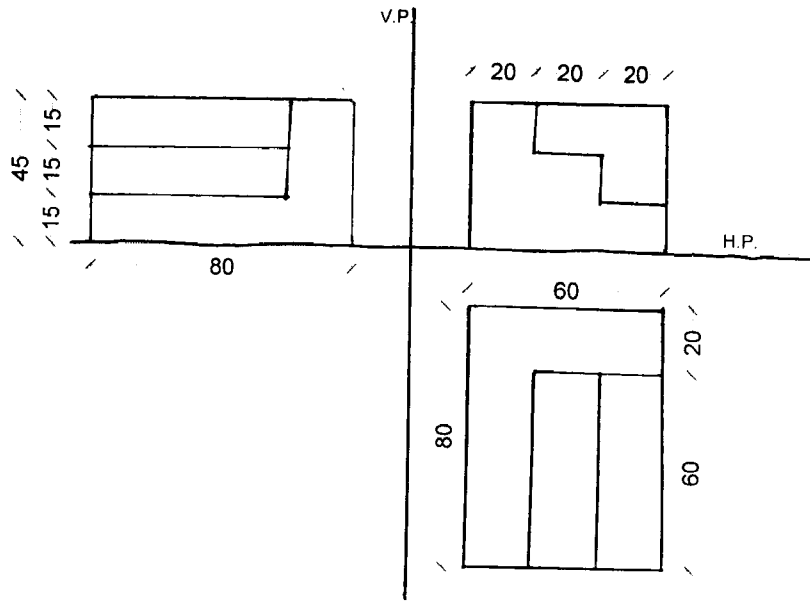
- 3 A pentagonal pyramid, side of base is 30mm and axis height
is 60mm rests with base on H.P. and edge of its base is
parallel to V.P. a section plane is perpendicular to V.P. and
inclined at 45° to H.P. passes through the axis at a point
35mm above the base draw sectional view.

SECTION - II

- 4 Answer any two : 30
- (i) Construct an ellipse whose major and minor axes are
120mm and 75mm respectively.
 - (ii) Construct a parabola by using tangent method on line
AB= 12 cm and height is 8 cm.
 - (iii) Draw pentagon, hexagon and heptagon on given line
AB= 4 cm.
 - (iv) Draw involutes of square of side 45 mm.

5 Draw isometric view of the following :

30



OR

