



DELHI PUBLIC SCHOOL
SAIL TOWNSHIP, RANCHI
ANNUAL EXAMINATION (2017-18)

Class:- XI
Time- 3 Hrs.

Subject:- Engineering Graphics
F. M:- 70

Note:- Attempt all the questions. All dimensions are in millimeters. Missing and mismatching dimensions, if any, may be suitably assumed. Follow s.p.46-2003 revised code (with first angle method of projections)

- Q.1 Multiple choice questions. [1x5=5]**
- (i) When the axis of a solid is vertical, its top view will be seen as a circle, in which of the following options?
- (a) sphere (b) cone (c) cylinder (d) all of these
- (ii) When a point lies in the H.P. its view from the front will be
- (a) on XY line (b) below XY line (c) above XY line (d) none of these
- (iii) A vertical line means a line is
- (a) Perpendicular to V.P. (b) Parallel to V.P (c) Perpendicular to H.P. (d) Parallel to H.P.
- (iv) Which dimension is common in front view and top view?
- (a) Height (b) Length (c) Width (d) None of these
- (v) Which dimension is common in front view and side view?
- (a) Length (b) Width (c) Height (d) All of these
- Q.2 A point 'C' is 15 mm in front of the V.P. and in the H.P. Draw the projections. Give the dimensions. [4]**
- Q.3 A 50 mm long line is parallel to both H.P. and V.P line is 20 mm in front of the V.P. and 15 mm above the H.P. Draw the Projections. Give the dimensions. [4]**
- Q.4 A square pyramid of base side 30 mm, height 50 mm is resting on the ground of its base. Draw front and top view. Give the dimensions. [5]**
- Q.5 A cone of base diameter 40 mm, height 50 mm is resting on the ground of it's base. Axis is vertical. Draw front view and top view. Give the dimensions. [5]**
- Q.6 Construct an isometric scale. [4]**
- Q.7 A hexagonal prism of base side 30 mm, height 50 mm, is resting on the ground of its base, axis is vertical. Base side parallel to V.P. Draw the Isometric Projections. Give all the dimensions. Show the direction from viewing. [8]**

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- Q.8 A square plane of base side 40 mm. sides parallel to V.P. Draw the Isometric Projections. It is in horizontal position. Give the dimensions. [5]
- Q.9 In Fig-I Draw its front view, top view and side view. Give the dimensions. [10]
- Q.10 Draw the projections of a pentagonal pyramid, base 30 mm, axis 50 mm long having its base on the ground and an edge of the base parallel to the V.P. Also draw its side view from left. Give the dimensions. [10]
- Q.11 A cylinder of 40 mm diameter, 60 mm height and having its axis vertical, is cut by a section plane, perpendicular to V.P., inclined at 45° to H.P. and intersecting the axis 32 mm above the base. Draw front view and sectional top view. [10]

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