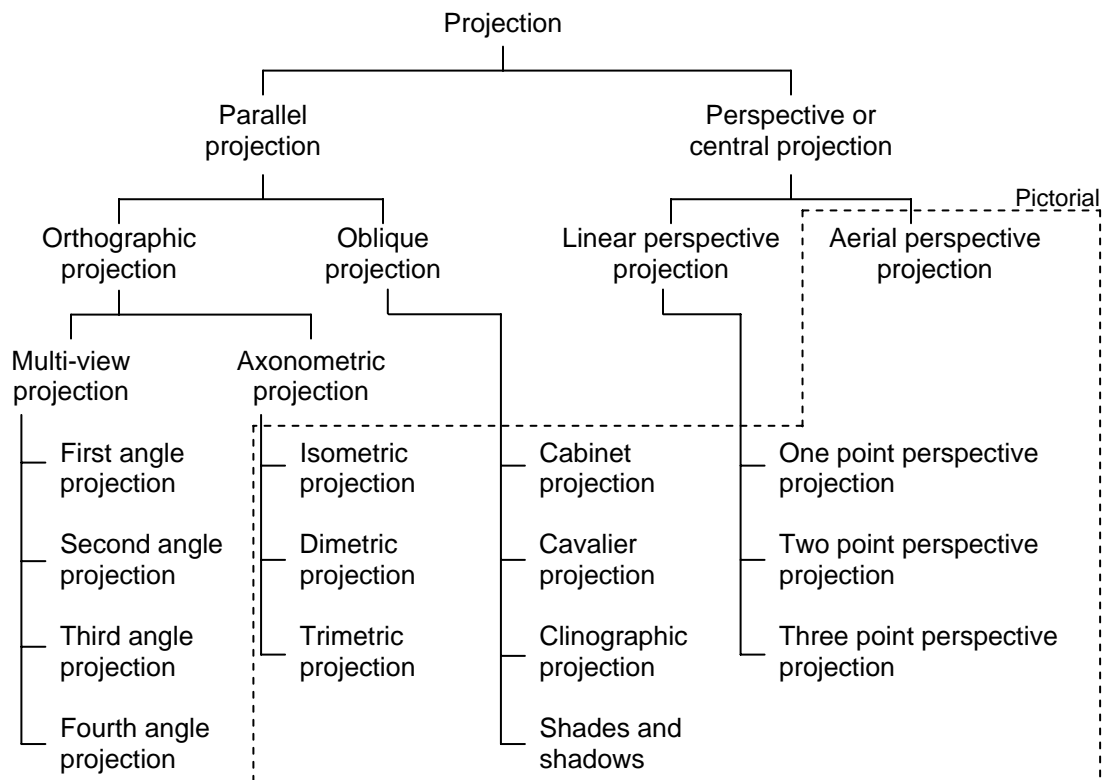


ORTHOGRAPHIC PROJECTIONS

7

7-1 PROJECTION

Projection is defined as an image or drawing of an object made on a plane. All drawings used in the field of engineering are based on the principles of projection. That is why engineering drawings are capable to precisely convey the external as well as internal features of objects in terms of their shape and size. Projections can be classified on the basis of line of sight and the position of plane on which the drawing is made.



MULTIPLE CHOICE QUESTIONS

Choose the most appropriate answer out of the given alternatives:

- i) Projection of an object shown by three views is known as
(a) Perspective (b) Isometric (c) Oblique (d) Orthographic

- ii) Which of the following describes the theory of orthographic projection?
- (a) Projectors parallel to each other and perpendicular to the plane of projection
 - (b) Projectors parallel to each other and parallel to the plane of projection
 - (c) Projectors parallel to each other and oblique to the plane of projection
 - (d) Projectors perpendicular to each other and parallel to the plane of projection
- iii) In orthographic projection, the elevation is obtained on a plane called
- (a) Horizontal
 - (b) Vertical
 - (c) Profile
 - (d) Auxiliary
- iv) In multiview projections, the XY line is also known as
- (a) Horizontal line
 - (b) Horizontal trace
 - (c) Reference line
 - (d) All of these
- v) In first angle projection method, the relative positions of the object, plane and observers are
- (a) Object is placed in between
 - (b) Plane is placed in between
 - (c) Observer is placed in between
 - (d) May be placed in any order
- vi) In first angle projection system, the right hand side view of an object is drawn
- (a) Above of the elevation
 - (b) Below of the elevation
 - (c) Left of the elevation
 - (d) Right of the elevation
- vii) If the front view of an object exhibits width and height, then what dimensions of an object are exhibited by a right side view?
- (a) Length and width
 - (b) Length and height
 - (c) Height and width
 - (d) Length and breadth
- viii) For orthographic projections, B.I.S. recommends the following
- (a) First angle projection
 - (b) Third angle projection
 - (c) Second angle projection
 - (d) Fourth angle projection

ix) The recommended symbol for indicating the angle of projection shows two views of the frustum of a

- (a) Square Pyramid
- (c) Cone

- (b) Triangular pyramid
- (d) Any of these

x) For the object shown in Fig. 7.23 select the correct front view

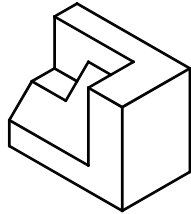
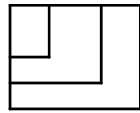
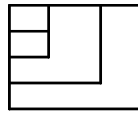


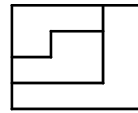
Fig. 7.23



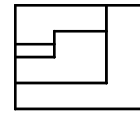
(a)



(b)



(c)



(d)

xi) For the object shown in Fig. 7.24 select the correct front view

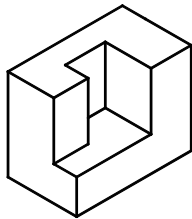
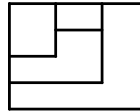
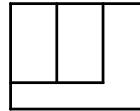


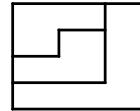
Fig. 7.24



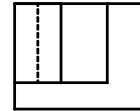
(a)



(b)



(c)



(d)

Answer: (i) d (ii) a (iii) b (iv) c (v) a (vi) c (vii) b (viii) a (ix) c (x) c (xi) b