

# LINES, LETTERING AND DIMENSIONING

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# 2

## 2-1 INTRODUCTION

Engineering drawing is supposed to give complete information about the shape and size of the objects like machine parts, buildings etc. The shape of the object is conveyed through the appearance of the drawing while the size description is expressed in the form of figured dimensions and notes. The Bureau of Indian Standards has recommended various types of lines, letters and dimensions to be used. This chapter introduces the standard practice suggested by Bureau of Indian Standards for various types of lines to specify shape, size of letters for writing notes, dimensions to convey the size and their correct way of implementation.

## MULTIPLE CHOICE QUESTIONS

Choose the most appropriate answer out of the given alternatives:

- i) Which of following publications made by Bureau of Indian Standards includes standard techniques for line conventions and lettering in detail?  
(a) SP 46                      (b) BIS 9609                      (c) ASME Y14.2M                      (d) ISO 9000
- ii) Center lines are drawn as  
(a) Continuous narrow lines                      (b) Dashed narrow line  
(c) Long-dashed dotted narrow line                      (d) Long-dashed double dotted narrow line
- iii) Long-dashed dotted narrow line is used to represent  
(a) Line of symmetry                      (b) Center lines  
(c) Pitch circle of gears and holes                      (d) All the above
- iv) When (1) Visible outlines (2) Hidden outlines (3) Projection lines and (4) Centre lines overlap, the recommended sequence of priority is  
(a) 1-2-3-4                      (b) 1-2-4-3                      (c) 2-1-3-4                      (d) 2-1-4-3
- v) The inclination of letters as recommended by BIS is  
(a) 75°                      (b) 70°                      (c) 65°                      (d) 60°

- vi) The length to height ratio of an Closed filled arrow head is  
 (a) 1:3                    (b) 3:1                    (c) 1:2                    (d) 2:1
- vii) The two recommended systems of placing the dimensions are  
 (a) Unidirectional and Aligned systems   (b) Upright and inclined systems  
 (c) Linear and oblique systems            (d) Linear and inclined systems
- viii) Which of the following is the correct statement for dimensioning a view:  
 (a) All of them should be placed within a view  
 (b) All of them should be placed close to the parts being dimensioned  
 (c) They should be marked from visible outlines rather than from hidden line  
 (d) Dimensions indicated in one view may be repeated in another view
- ix) The dimension figure for diameter of a circle should be:  
 (a) Preceded by the symbol 'Ø'            (b) Suffixed by the symbol 'Ø'  
 (c) Preceded by the symbol 'D'            (d) Suffixed by the symbol 'D'
- x) Which of the following is **not** a specified method for dimensioning?  
 (a) Parallel dimensioning                    (b) Perpendicular dimensioning  
 (c) Continuous Dimensioning            (d) Dimensioning by coordinates
- xi) Rounded interior corner is called  
 (a) Round                    (b) Chamfer                    (c) Fillet                    (d) Countersink

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