Class: XII

Session: 2021-22

Subject: ENGINEERING GRAPHICS

Sample Question Paper -- TERM – 1

Marking Scheme

SECTION A

1) (d) 120^0
2) (c) Orthographic projection
3) (a) cone
4) (d) thin continuous line
5) (b) Observer, Object, Plane of projection
6) (b) 60^0
7) (c) 55^0
8) (a) 45^0
9) (b) Nut-Bolt
10) (a) Square thread
11) (a) Isometric projection
12) (b) orthographic
13) (b) less than 70mm
14) (a) 15^0
15) (d) ellipse
16) (c) 30^0
17) (d) British Standard Whitworth
18) (a) Square
19) (b)
20) (c)
21) (c)
22) (a)
23) (b)
24) (c)
25) (a)

SECTION B

26) (b) The base edge of a cube is equal to its height
27) (d) Hexagonal ends of the prism are parallel to V.P.

28) (d) The cylinder is resting on H.P. with its axis parallel to both H.P. and V.P.
29) (c) The axis is perpendicular to H.P. and parallel to V.P.
30) (c) One of the base sides of the pentagonal prism is normal to V.P.
31) (a) The common axis is perpendicular to HP and parallel to VP.
32) (c) Both the solids are square prisms.
33) (b) The size of common axis is less than true 90mm.
34) (c) Both the solids are vertical and one of the base edges of the prism is parallel to VP and near it.
35) (a) The common axis is perpendicular to HP and two of the base edges of the prism are perpendicular to VP
36) (a) A hemisphere is kept centrally on the top hexagonal surface of a hexagonal prism with its curved surface on it
37) (d) A vertical triangular pyramid is kept on a vertical circular disc
38) (b) The isometric projection of a sphere is a circle whose diameter is equal to the true diameter of the sphere
39) (c) Axis of prism is perpendicular to VP and axis of cylinder is perpendicular to HP
40) (b) A vertical cylinder of base diameter 40 mm is placed centrally on a pentagonal prism which is resting on HP with one of its long edges on it
41) (d) A vertical hexagonal pyramid with two of its base edges parallel to VP is placed centrally on a horizontal square prism with its square ends perpendicular to VP
42) (b)
43) (c)
44) (d)
45) (b)
46) (a)
47) (c)
48) (d)
49) (a)

SECTION C

50) (b) 30 cm
51) (c) Same
52) (c) a scalene triangle
53) (b) axis perpendicular to HP
54) (a) It remains same
55) (d) isometric scale