MARKING SCHEME
PRACTICE PAPER (2021-22)
CLASS : XII
SUBJECT : ENGINEERING GRAPHICS (046)

समय : 90 मिनट   अधिकतम अंक – 35

Time Allowed : 90 Min.   **Maximum Marks : 35**

GENERAL INSTRUCTIONS:

1. The question paper contains three sections A, B and C.
2. Section-A has 25 questions. Attempt any 20 questions.
3. Section-B has 24 questions. Attempt any 20 questions.
4. Section-C has 6 questions. Attempt any 5 questions.
5. All questions carry equal marks.
6. There is no negative marking.

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खंड-अ
Section-A

1. (a) First Quadrant

2. (c) 108º

3. (d) 4H

4. (a) Protractor

5. (d) Hatching Lines

6. (a) Ellipse

7. (a) Rivet

8. (b) D = 0.50P

9. (a) 30º

10. (b) 1.5D+3

11. (a) 2D+3

12. (a) Square Headed Bolt

13. (a) Excluding the height or thickness of bolt head.

14. (d) It is the best choice for mechanical power transmission.

15. (b) Metric Thread

16. (d) 125º

17. (b) 4

18. (a) Foreshortened

19. (c) Isometric Lines

20. (a) Lead

21. (c) 55º

22. (d) Surface

23. (c) 60º

24. (a) Square Thread; Nominal Diameter = 40 mm; Pitch = 4 mm.

25. (d) D/8

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खंड-ब

Section-B

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26. (a) 32.64 mm

27. (b) Rhombus

28. (a) 25.60 mm

29. (c) Inclined at an angle 30º with horizontal in front of directon of viewing.

30. (a) Both A and R are true and R is the correct explanation of A.

31. (a) Both A and R are true and R is the correct explanation of A.

32. (a) Both A and R are true and R is the correct explanation of A.

33. (c) A is true but R is false.

34. (a) Both A and R are true and R is the correct explanation of A.

35. (b)

36. (d)

37. (b) The axis of triangular prism is vertical.

38. (a) This pentagonal pyramid is an Inverted Pyramid.

39. (d) Circular faces of the cylinder are perpendicular to V.P.

40. (a) Total Axial Height of the solid is ISO 80 mm.

41. (c) Top solid is a Square Pyramid and the bottom solid is a pentagonal prism.

42. (c) Pentagonal prism is resting on H.P. with its long edge.

43. (a) Axis of the triangular prism is perpendicular to V.P.

44. (c) Solid on top is a triangular prism of axial height 60 mm.

45. (b) One base edge of pentagonal prism is perpendicular to V.P.

46. (a) Diameter of circle is equal to diameter of given sphere.

47. (a) This combination of solids has three circular faces and two curved surfaces.

48. (b) Total Isometric Height of the combination of solids is less than 84 mm.

49. (c) A horizontal hexagonal pyramid is resting on horizontal square prism.

खंड-स
Section-C

50. (b) 90 mm

51. (b) 73.44 mm

52. (c) Center of the spherical scoop will be same as the center of circular face of cone.

53. (c) Inverted solid

54. (c) Semi-circle

55. (a) Total Height of ice-cream remains unchanged.