

ಕರ್ನಾಟಕ ಪ್ರೌಢ ಶಿಕ್ಷಣ ಪರೀಕ್ಷಾ ಮಂಡಳಿ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು – 560 003

**KARNATAKA SECONDARY EDUCATION EXAMINATION BOARD,
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ಪತ್ರಿಕೆ - 03 / Paper - 03

ಎಸ್.ಎಸ್.ಎಲ್.ಸಿ. ಪೂರಕ ಪರೀಕ್ಷೆ - 2021

S.S.L.C. SUPPLEMENTARY EXAMINATION – 2021

ವಿಷಯ : ಎಲಿಮೆಂಟ್ಸ್ ಆಫ್ ಮೆಕ್ಯಾನಿಕಲ್ ಅಂಡ್ ಎಲೆಕ್ಟ್ರಿಕಲ್ ಇಂಜಿನಿಯರಿಂಗ್ - 2

& ಇಂಜಿನಿಯರಿಂಗ್ ಗ್ರಾಫಿಕ್ಸ್ - 2

Subjects : Elements of Mechanical & Electrical Engineering - 2

& Engineering Graphics - 2

(ಇಂಗ್ಲಿಷ್ ಮಾಧ್ಯಮ / English Medium)

ಉತ್ತರಗಳ ಸಂಕೇತಗಳು

KEY ANSWERS

ಸಂಕೇತ ಸಂಖ್ಯೆ : 72-E (RF/RR)

Code No. : 72-E (RF/RR)

ವಿಷಯ : ಇಂಜಿನಿಯರಿಂಗ್ ಗ್ರಾಫಿಕ್ಸ್ - 2

Subject : ENGINEERING GRAPHICS - 2

ಒಟ್ಟು ಪ್ರಶ್ನೆಗಳ ಸಂಖ್ಯೆ : 25]

[Total No. of Questions : 25

ಗರಿಷ್ಠ ಅಂಕಗಳು : 25]

[Max. Marks : 25

ಈ ಪ್ರತಿಯೊಂದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಅಥವಾ ಅಪೂರ್ಣ ಹೇಳಿಕೆಗಳಿಗೆ ನಾಲ್ಕು ಆಯ್ಕೆಗಳನ್ನು ನೀಡಲಾಗಿದೆ. ಅವುಗಳಲ್ಲಿ ಸರಿಯಾದ ಉತ್ತರವನ್ನು ಆರಿಸಿ ನಿಮಗೆ ನೀಡಲಾಗಿರುವ ಓ.ಎಂ.ಆರ್. (OMR) ಉತ್ತರ ಪತ್ರಿಕೆಯಲ್ಲಿ ನೀಲಿ ಅಥವಾ ಕಪ್ಪು ಶಾಯಿಯ ಬಾಲ್ ಪಾಯಿಂಟ್ ಪೆನ್‌ನಿಂದ ಸರಿಯಾದ ಆಯ್ಕೆಯನ್ನು ಶೇಡ್ ಮಾಡಿರಿ :

7726(S) (KA)

[Turn over

Four choices are given for each of the following questions / incomplete statements. Choose the correct answer among them and shade the correct option in the OMR Sheet given to you with a black / blue ball point pen.

25 × 1 = 25

51. Dimension lines are

- (A) long-dashed dotted narrow lines
- (B) dotted lines
- (C) thick lines
- (D) thin lines

Ans. : (D) thin lines

52. Set squares can draw lines with precision inclined with the horizontal at an angle in multiples of

- (A) 5 degrees
- (B) 15 degrees
- (C) 10 degrees
- (D) 20 degrees

Ans. : (B) 15 degrees

53. The dimension figure for diameter of a circle should be

- (A) preceded by the symbol ' ϕ '
- (B) suffixed by the symbol ' ϕ '
- (C) preceded by the symbol 'D'
- (D) suffixed by the symbol 'D'

Ans. : (A) preceded by the symbol ' ϕ '

54. A ten-sided polygon is referred as

- (A) hexagon
- (B) octagon
- (C) decagon
- (D) dodecagon

Ans. : (C) decagon

55. In orthographic projection the plan is obtained on a plane called

- (A) vertical plane (B) horizontal plane
(C) profile plane (D) auxiliary plane

Ans. : (B) horizontal plane

56. In first angle projection system method the relative positions of the object plane and observers are

- (A) Plane is placed in between
(B) Observer is placed in between
(C) May be placed in any order
(D) Object is placed in between

Ans. : (D) Object is placed in between

57. In third angle projection system method the right hand side view of an object is drawn

- (A) below the elevation (B) right of the elevation
(C) above the elevation (D) left of the elevation

Ans. : (B) right of the elevation

58. The line joining the front and top views of a point is called

- (A) reference line (B) connector
(C) projector (D) locus

Ans. : (C) projector

59. If the front view of a point is 50 mm above the XY line and the top view is 20 mm below the front view, the point lies in

- (A) first quadrant (B) third quadrant
(C) second quadrant (D) fourth quadrant

Ans. : (C) second quadrant

60. An orthographic view of a hemisphere may appear as

- (A) ellipse (B) circle
(C) parabola (D) hyperbola

Ans. : (B) circle

61. If a thin rectangular plate of 60 mm × 30 mm is inclined at an angle of 60 degree to H.P., its top view may be

- (A) square of 30 mm side
(B) rectangle of 60 mm × 45 mm
(C) square of 60 mm side
(D) rectangle of 45 mm × 30 mm

Ans. : (A) square of 30 mm side

62. A cube is resting on H.P. with a solid diagonal perpendicular to it. The top view will appear as

- (A) square (B) regular hexagon
(C) regular pentagon (D) rectangle

Ans. : (B) regular hexagon

63. The number of stages that are necessary to get the orthographic views of a solid having its axis inclined to both the reference planes is

- (A) two (B) one
(C) four (D) three

Ans. : (D) three

64. A tetrahedron is resting on its face on the H.P. with a side perpendicular to the V.P. Its front view will be a/an

- (A) equilateral triangle (B) scalene triangle
(C) isosceles triangle (D) right-angled triangle

Ans. : (C) isosceles triangle

65. Number of faces in an icosahedron is
(A) 12 (B) 8
(C) 10 (D) 20
Ans. : (D) 20
66. A pyramid is cut by a plane parallel to its base removing the apex. The remaining part is known as
(A) truncated (B) frustum
(C) sectioned (D) prism
Ans. : (B) frustum
67. Isometric projections cannot be drawn by
(A) box method (B) zone method
(C) offset method (D) coordinate method
Ans. : (B) zone method
68. Second angle projection is not used because
(A) views overlap each other (B) top view is above XY
(C) front view is above XY (D) views are foreshortened
Ans. : (A) views overlap each other
69. A right circular cone is resting on a generator in the H.P. and axis inclined at 45° to the V.P. The angle between the reference line and top view of the axis is
(A) less than 45° (B) more than 45°
(C) 45° (D) 90°
Ans. : (C) 45°
70. A sphere in isometric projection appears as a circle of diameter
(A) 0.816 time the diameter of sphere
(B) greater than diameter of sphere
(C) less than 0.816 time diameter of sphere
(D) equal to the diameter of sphere
Ans. : (D) equal to the diameter of sphere

72-E

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71. The angle that isometric lines make with each other is

- (A) 360 degrees
- (B) 30 degrees
- (C) 60 degrees
- (D) 120 degrees

Ans. : (D) 120 degrees

72. While making isometric projections, the ellipse is preferably drawn by

- (A) oblong method
- (B) four-centre method
- (C) concentric circles method
- (D) parallelogram method

Ans. : (B) four-centre method

73. For the object shown in Figure No. 1 select the correct front view in the direction of arrow 'X' :

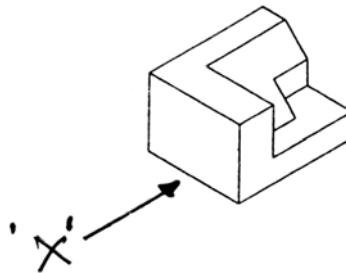


Figure No. 1

- (A)
- (B)
- (C)
- (D)

Ans. : (C)

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74. Select the correct isometric view corresponding to the orthographic view shown in Figure No. 2 :

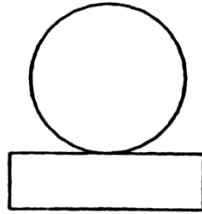
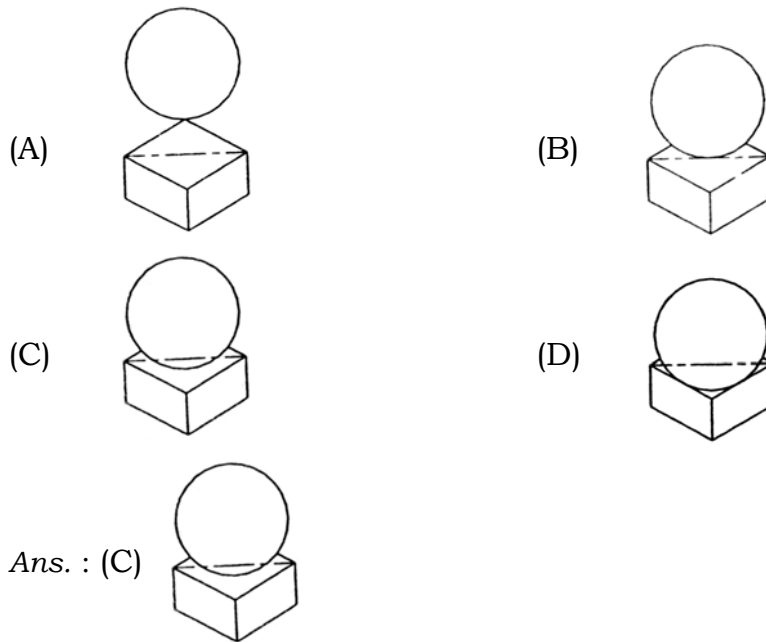


Figure No. 2



75. The projectors in isometric view are
- (A) perpendicular to plane of projection
 - (B) diverging
 - (C) parallel to plane of projection
 - (D) converging

Ans. : (A) perpendicular to plane of projection