

OBJECTIVE QUESTION BANK ENGINEERING DRAWING

1) What is the purpose of engineering drawing?

- ☐ a) To create artistic illustrations
- ☐ b) To communicate engineering concepts
- ☐ c) To decorate office walls
- ☐ d) To entertain

Answer: b) To communicate engineering concepts

2) Which instrument is commonly used for drawing straight lines?

- ☐ a) Compass
- ☐ b) Divider
- ☐ c) Set square
- ☐ d) T-square

Answer: d) T-square

3) In an orthographic projection, the top view is also known as the:

- ☐ a) Front view
- ☐ b) Plan view
- ☐ c) Side view
- ☐ d) Isometric view

Answer: b) Plan view

4) What is the angle between the horizontal and vertical planes in isometric projection?

- ☐ a) 30 degrees
- ☐ b) 45 degrees
- ☐ c) 60 degrees
- ☐ d) 90 degrees

Answer: a) 30 degrees

5) Which type of projection has equal foreshortening along three axes?

- ☐ a) Orthographic projection
- ☐ b) Isometric projection

- c) Oblique projection
- d) Perspective projection

Answer: b) Isometric projection

6) The main reason for using a scale on engineering drawings is to:

- a) Add artistic value
- b) Save paper
- c) Make drawings easier to read
- d) Represent objects proportionally

Answer: d) Represent objects proportionally

7) What is the term for the measurement of the size or location of a feature?

- a) Dimension
- b) Section
- c) Grid
- d) Hatch

Answer: a) Dimension

8) In mechanical drawing, what does a dashed line represent?

- a) Center line
- b) Hidden line
- c) Visible line
- d) Cutting plane line

Answer: b) Hidden line

9) Which symbol represents diameter in engineering drawings?

- a) R
- b) $\varnothing$
- c) D
- d) Δ

Answer: b) $\varnothing$

10) What does a section view show?

- a) The exterior of an object
- b) The interior features of an object
- c) An isometric view
- d) The front and side views together

Answer: b) The interior features of an object

11) Which projection method uses parallel lines to project an object's features onto a plane?

- a) Perspective projection
- b) Axonometric projection
- c) Orthographic projection
- d) Oblique projection

Answer: c) Orthographic projection

12) In an engineering drawing, what is the first angle projection system?

- a) European system
- b) American system
- c) Isometric system
- d) Perspective system

Answer: a) European system

13) What does a cutting plane line in a drawing indicate?

- a) The edge of an object
- b) A feature to be removed
- c) The location of a section view
- d) A dimension line

Answer: c) The location of a section view

14) Which drawing technique is used to create a 3D representation of an object?

- a) Orthographic drawing
- b) Axonometric drawing
- c) Section drawing
- d) Perspective drawing

Answer: d) Perspective drawing

15) In an engineering drawing, what is the typical thickness of a thick line?

- ☐ a) 0.18 mm
- ☐ b) 0.25 mm
- ☐ c) 0.50 mm
- ☐ d) 0.70 mm

Answer: d) 0.70 mm

16) What is the standard angle used for isometric drawings?

- ☐ a) 15 degrees
- ☐ b) 30 degrees
- ☐ c) 45 degrees
- ☐ d) 60 degrees

Answer: b) 30 degrees

17) Which type of drawing provides the most accurate representation of an object's size and shape?

- ☐ a) Sketch
- ☐ b) Orthographic projection
- ☐ c) Isometric drawing
- ☐ d) Perspective drawing

Answer: b) Orthographic projection

18) What does a leader line in a drawing indicate?

- ☐ a) The direction of an object
- ☐ b) The path of motion
- ☐ c) A specific feature being referenced
- ☐ d) The axis of rotation

Answer: c) A specific feature being referenced

19) What is the purpose of a dimension line in a drawing?

- ☐ a) To decorate the drawing
- ☐ b) To show the relationship between two points

- c) Showing the size (dimensions) of an object
- d) To represent hidden features

Answer: c) Showing the size (dimensions) of an object

20) Which instrument is used to draw circles and arcs?

- a) Protractor
- b) Divider
- c) Compass
- d) Ruler

Answer: c) Compass

21) What does the term "tolerance" refer to in engineering drawings?

- a) The allowed deviation from the specified dimension
- b) The overall length of an object
- c) The thickness of a line
- d) The size of a feature

Answer: a) The allowed deviation from the specified dimension

22) What is the purpose of a title block in an engineering drawing?

- a) To add aesthetic value
- b) To provide information about the drawing
- c) To mark the center of the drawing
- d) To indicate the thickness of lines

Answer: b) To provide information about the drawing

23) In engineering drawing, what is the symbol for radius?

- a) R
- b) $\varnothing$
- c) D
- d) Δ

Answer: a) R

24) Which type of line is used to indicate a break in an object for sectioning?

- a) Visible line
- b) Hidden line
- c) Break line
- d) Center line

Answer: c) Break line

25) What is the purpose of a detail view in an engineering drawing?

- a) To show the entire object at once
- b) To display the object's hidden features
- c) To provide an enlarged view of a specific area
- d) To represent the object's motion

Answer: c) To provide an enlarged view of a specific area

26) What is the term for a drawing that shows an object's components in a specific arrangement?

- a) Assembly drawing
- b) Detail drawing
- c) Exploded view drawing
- d) Section drawing

Answer: a) Assembly drawing

27) Which drawing technique uses vanishing points to create depth?

- a) Isometric drawing
- b) Orthographic drawing
- c) Perspective drawing
- d) Section drawing

Answer: c) Perspective drawing

28) What does a thick continuous line represent in engineering drawings?

- a) Visible edges and boundaries
- b) Hidden features
- c) Centerlines
- d) Section lines

Answer: a) Visible edges and boundaries

29) In an engineering drawing, what is the primary purpose of a section line?

- a) To show hidden features
- b) To indicate a cutting plane
- c) To represent the object's exterior
- d) To illustrate an imaginary cut

Answer: d) To illustrate an imaginary cut

30) What is the standard angle for auxiliary views?

- a) 15 degrees
- b) 30 degrees
- c) 45 degrees
- d) 90 degrees

Answer: d) 90 degrees

31) Which projection method uses orthogonal lines to project views of an object?

- a) Axonometric projection
- b) Isometric projection
- c) Orthographic projection
- d) Perspective projection

Answer: c) Orthographic projection

32) What is the purpose of a centerline in a drawing?

- a) To show the perimeter of an object
- b) To represent an axis of symmetry
- c) To indicate the thickness of a feature
- d) To show hidden features

Answer: b) To represent an axis of symmetry

33) Which type of drawing shows a detailed view of a specific part of an object?

- a) Detail drawing
- b) Assembly drawing

- c) Section drawing
- d) Plan drawing

Answer: a) Detail drawing

34) what is the primary purpose of a cutting plane line in engineering drawing?

- a) To indicate the direction of an object's motion
- b) To show the object's
- c) It acts as a visual indicator
- d) It is a thin line

35) Which type of projection is commonly used in technical drawings to represent 3D objects in 2D?

- a) Orthographic projection
- b) Isometric projection
- c) Oblique projection
- d) Perspective projection

Answer: a) Orthographic projection

36) What is the purpose of a section line in a sectional view?

- a) To indicate the direction of the view
- b) To represent the cutting plane
- c) To show the axis of symmetry
- d) To indicate the material of the object

Answer: b) To represent the cutting plane

37) Which instrument is used to measure angles in mechanical drawings?

- a) Compass
- b) Protractor
- c) Ruler
- d) Divider

Answer: b) Protractor

38) What does the abbreviation 'R' stand for in engineering drawings?

- a) Radius
- b) Rotation
- c) Rectangular
- d) Reference

Answer: a) Radius

39) What is the primary use of a detail drawing?

- a) To show the entire assembly
- b) To provide a magnified view of a small part
- c) To indicate dimensions
- d) To show hidden features

Answer: b) To provide a magnified view of a small part

40) Which line type is used to represent a symmetry line in a drawing?

- a) Solid line
- b) Dashed line
- c) Chain line
- d) Phantom line

Answer: c) Chain line

41) What is the purpose of an auxiliary view?

- a) To show the object's interior features
- b) To represent the object in 3D
- c) To provide a view of an inclined surface
- d) To display the object's motion

Answer: c) To provide a view of an inclined surface

42) Which type of line is used to represent the outline of an object?

- a) Centerline
- b) Hidden line
- c) Section line
- d) Visible line

Answer: d) Visible line

43) What does the term 'scale' refer to in an engineering drawing?

- a) The size of the paper
- b) The ratio of the drawing size to the actual size
- c) The weight of the object
- d) The number of views

Answer: b) The ratio of the drawing size to the actual size

44) What is the purpose of a break line in an engineering drawing?

- a) To show the boundary of an object
- b) To indicate a change in material
- c) To show where an object is broken
- d) To represent hidden features

Answer: c) To show where an object is broken

45) Which type of projection uses a single vanishing point?

- a) Orthographic projection
- b) Isometric projection
- c) Oblique projection
- d) Perspective projection

Answer: d) Perspective projection

46) What is the function of a reference line in a drawing?

- a) To show the center of an object
- b) To indicate a dimension

- c) To provide a basis for measurement
- d) To represent a hidden feature

Answer: c) To provide a basis for measurement

47) Which type of drawing is used to represent the exploded view of an assembly?

- a) Detail drawing
- b) Assembly drawing
- c) Isometric drawing
- d) Exploded view drawing

Answer: d) Exploded view drawing

48) What does the term 'orthogonal' mean in the context of engineering drawings?

- a) At an angle
- b) Parallel
- c) Perpendicular
- d) Symmetrical

Answer: c) Perpendicular

49) What is the purpose of a centerline in a cylindrical object drawing?

- a) To indicate the axis of symmetry
- b) To show the hidden features
- c) To represent the object's boundary
- d) To provide a dimension reference

Answer: a) To indicate the axis of symmetry

50) Which drawing technique uses multiple views to represent an object accurately?

- a) Isometric drawing
- b) Perspective drawing
- c) Orthographic projection
- d) Axonometric projection

Answer: c) Orthographic projection\

51. Which projection method uses parallel lines to project an object's features onto a plane?

- a) Perspective projection
- b) Isometric projection
- c) Orthographic projection
- d) Oblique projection

Answer: c) Orthographic projection

52. What does a continuous thick line represent in a technical drawing?

- a) Hidden edges
- b) Centerline
- c) Visible edges
- d) Section line

Answer: c) Visible edges

53. The process of removing unnecessary lines in an assembly drawing is called:

- a) Cleaning
- b) Trimming
- c) Dimensioning
- d) Hatching

Answer: b) Trimming

54. What is the term for a view that is projected onto a plane that is perpendicular to one of the principal planes of projection?

- a) Isometric view
- b) Auxiliary view
- c) Sectional view
- d) Oblique view

Answer: b) Auxiliary view

55. In a sectional view, what does the section line pattern indicate?

- a) Scale of the drawing
- b) Type of material
- c) Dimension of the part
- d) Orientation of the part

Answer: b) Type of material

56. Which type of drawing shows the interior features of an object by cutting it along a plane?

- a) Orthographic projection
- b) Sectional drawing
- c) Isometric drawing
- d) Perspective drawing

Answer: b) Sectional drawing

57. What is the purpose of a dimension line in a drawing?

- a) To show the direction of view
- b) To represent the center of an object
- c) To indicate the size of a feature
- d) To show hidden edges

Answer: c) To indicate the size of a feature

58. Which type of line is used to indicate the center of circles or arcs?

- a) Continuous line
- b) Dashed line
- c) Chain line
- d) Centerline

Answer: d) Centerline

59. What does the term 'isometric' mean in the context of drawing?

- a) Equal dimensions
- b) Equal angles

- c) Equal scales
- d) Equal projections

Answer: a) Equal dimensions

60. Which instrument is used to measure and draw angles?

- a) T-square
- b) Compass
- c) Divider
- d) Protractor

Answer: d) Protractor

61. What is the primary purpose of an exploded view drawing?

- a) To show the object's dimensions
- b) To illustrate the assembly order of parts
- c) To display hidden features
- d) To show the object's motion

Answer: b) To illustrate the assembly order of parts

62. What does the abbreviation 'MM' stand for in a drawing?

- a) Millimeter
- b) Machine mark
- c) Manufacturing method
- d) Material measurement

Answer: a) Millimeter

63. Which type of drawing represents an object using a single vanishing point?

- a) Isometric drawing
- b) Orthographic drawing
- c) Oblique drawing
- d) One-point perspective drawing

Answer: d) One-point perspective drawing

64. What does a dashed line represent in a technical drawing?

- a) Visible edges
- b) Hidden edges
- c) Centerline
- d) Section line

Answer: b) Hidden edges

65. Which drawing technique is used to show an inclined surface?

- a) Isometric drawing
- b) Auxiliary view
- c) Sectional view
- d) Oblique view

Answer: b) Auxiliary view

66. What is the purpose of a break line in a technical drawing?

- a) To indicate a hidden feature
- b) To shorten the representation of a long object
- c) To show the boundary of an object
- d) To illustrate motion

Answer: b) To shorten the representation of a long object

67. What does the abbreviation 'R' stand for in engineering drawings?

- a) Radius
- b) Rotation
- c) Reference
- d) Rectangular

Answer: a) Radius

68. Which type of projection distorts the dimensions of an object but retains its shape?

- a) Orthographic projection
- b) Isometric projection
- c) Oblique projection
- d) Perspective projection

Answer: b) Isometric projection

69. What is the function of a reference line in a drawing?

- a) To show the center of an object
- b) To indicate a dimension
- c) To provide a basis for measurement
- d) To represent a hidden feature

Answer: c) To provide a basis for measurement

70. What is the primary purpose of a sectional view in a drawing?

- a) To show the object's exterior
- b) To display the object's hidden features
- c) To indicate dimensions
- d) To show the object's motion

Answer: b) To display the object's hidden features

71. Which instrument is used to draw circles and arcs accurately?

- a) Protractor
- b) Divider
- c) Compass
- d) Ruler

Answer: c) Compass

72. What does a thin continuous line represent in engineering drawings?

- a) Visible edges and boundaries
- b) Hidden features
- c) Centerlines
- d) Section lines

Answer: a) Visible edges and boundaries

73. Which type of drawing uses multiple views to represent an object accurately?

- a) Isometric drawing
- b) Perspective drawing
- c) Orthographic projection
- d) Axonometric projection

Answer: c) Orthographic projection

74. What is the purpose of a title block in a technical drawing?

- a) To provide a decorative border
- b) To provide essential information about the drawing
- c) To show the scale of the drawing
- d) To indicate the direction of the view

Answer: b) To provide essential information about the drawing

75. What does the term 'orthogonal' mean in the context of engineering drawings?

- a) At an angle
- b) Parallel
- c) Perpendicular
- d) Symmetrical

Answer: c) Perpendicular

76. What is the primary purpose of a centerline in a cylindrical object drawing?

- a) To indicate the axis of symmetry
- b) To show the hidden features
- c) To represent the object's boundary
- d) To provide a dimension reference

Answer: a) To indicate the axis of symmetry

77. Which drawing technique uses vanishing points to create depth?

- a) Isometric drawing
- b) Orthographic drawing
- c) Perspective drawing
- d) Section drawing

Answer: c) Perspective drawing

78. What does the abbreviation 'T' stand for in engineering drawings?

- a) Tolerance
- b) Thickness
- c) Temperature
- d) Time

Answer: b) Thickness

79. What is the term for a drawing that shows the front, top, and side views of an object?

- a) Isometric drawing
- b) Oblique drawing

- c) Orthographic projection
- d) Perspective drawing

Answer: c) Orthographic projection

80. What does the term 'hatching' refer to in engineering drawings?

- a) Applying color to drawings
- b) Creating texture on surfaces
- c) Drawing closely spaced parallel lines to indicate sections
- d) Illustrating shadows

Answer: c) Drawing closely spaced parallel lines to indicate sections

81. Which type of line is used to represent a cutting plane in a sectional view?

- a) Continuous line
- b) Dashed line
- c) Chain line
- d) Phantom line

Answer: c) Chain line

82. Which projection method uses a single vanishing point?

- a) Orthographic projection
- b) Isometric projection
- c) Oblique projection
- d) Perspective projection

Answer: d) Perspective projection

83. What is the function of a reference line in a drawing?

- a) To show the center of an object
- b) To indicate a dimension
- c) To provide a basis for measurement
- d) To represent a hidden feature

Answer: c) To provide a basis for measurement

84. What is the primary purpose of a cutting plane line?

85. Which type of projection is used for drawing a part that is inclined to one of the principal planes?

- a) Orthographic projection
- b) Auxiliary view
- c) Isometric projection
- d) Oblique projection

Answer: b) Auxiliary view

86. Which type of line is used to indicate an imaginary cut in a sectional view?

- a) Visible line
- b) Hidden line
- c) Section line
- d) Centerline

Answer: c) Section line

87. What does the term 'scale' in a drawing specify?

- a) The material of the object
- b) The dimensions of the object
- c) The ratio of the drawing size to the actual size
- d) The weight of the object

Answer: c) The ratio of the drawing size to the actual size

88. What is the primary function of a centerline in a drawing?

- a) To indicate the boundary of an object
- b) To show the hidden features
- c) To represent an axis of symmetry
- d) To indicate the direction of view

Answer: c) To represent an axis of symmetry

89. Which instrument is used to measure the length of a curved line?

- a) Divider
- b) Compass
- c) Caliper
- d) Opisometer

Answer: d) Opisometer

90. What does the term 'orthographic' mean in the context of engineering drawing?

- a) Parallel projection
- b) Perpendicular projection
- c) Oblique projection
- d) Perspective projection

Answer: b) Perpendicular projection

91. Which line type is used to represent the axis of a cylinder?

- a) Continuous line
- b) Dashed line
- c) Chain line
- d) Centerline

Answer: d) Centerline

92. What is the purpose of a title block in an engineering drawing?

- a) To provide aesthetic value
- b) To mark the center of the drawing
- c) To provide information about the drawing
- d) To indicate the thickness of lines

Answer: c) To provide information about the drawing

93. Which type of drawing provides a detailed view of a specific part of an object?

- a) Detail drawing
- b) Assembly drawing

- c) Section drawing
- d) Plan drawing

Answer: a) Detail drawing

94. In an engineering drawing, what does the symbol $\varnothing$ represent?

- a) Radius
- b) Diameter
- c) Circumference
- d) Area

Answer: b) Diameter

95. What is the standard unit of measurement used in engineering drawings?

- a) Inches
- b) Centimeters
- c) Millimeters
- d) Meters

Answer: c) Millimeters

96. Which type of projection uses unequal foreshortening along the three axes?

- a) Orthographic projection
- b) Isometric projection
- c) Oblique projection
- d) Perspective projection

Answer: c) Oblique projection

97. What is the primary purpose of an assembly drawing?

- a) To show the individual components of an object
- b) To show the entire assembly of an object
- c) To illustrate the object's dimensions
- d) To display the object's hidden features

Answer: b) To show the entire assembly of an object

98. Which drawing technique is used to show an exploded view of an assembly?

- a) Detail drawing
- b) Assembly drawing
- c) Isometric drawing
- d) Exploded view drawing

Answer: d) Exploded view drawing

99. What does the term 'tolerance' refer to in engineering drawings?

- a) The overall length of an object
- b) The allowed deviation from the specified dimension
- c) The thickness of a line
- d) The size of a feature

Answer: b) The allowed deviation from the specified dimension

100. Which type of line is used to represent hidden edges in a drawing?

- a) Continuous line
- b) Dashed line
- c) Centerline
- d) Section line

Answer: b) Dashed line