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ENGINEERING DRAWING Multiple Choice Questions :-

1. If a client of yours is having difficulty visualizing a design, what type of drawing would be the easiest to understand?

- A. axonometric
- B. three-view orthographic
- C. one-view orthographic
- D. bimetric

2. Which of the following is not a pictorial drawing?

- A. isometric
- B. multiview
- C. perspective
- D. axonometric

3. Which of the following projection methods does not use projectors perpendicular to the projection plane?

- A. isometric
- B. orthographic
- C. oblique
- D. axonometric

4. A circle will appear on an isometric drawing as a(n) _____ .

- A. ellipse
- B. cycloid
- C. circle
- D. parabola

5. An axonometric drawing which has two axes divided by equal angles is:

- A. dimetric
- B. trimetric
- C. orthographic
- D. isometric

6. An axonometric drawing which has all three axes divided by equal angles is:

- A. dimetric
- B. trimetric
- C. orthographic
- D. isometric

7. In a trimetric drawing, the relationship of the angle between axes to each other is:

- A. three are equal
- B. two are equal
- C. three are unequal
- D. none of the above

8. In an isometric sketch of a cube:

- A. the frontal face appears in its true shape
- B. the receding axes are at 45 degrees to the horizontal
- C. all faces are equally distorted
- D. only the depth distances must be reduced

9. In isometric drawings:

- A. Two axes are perpendicular
- B. True measurements can be made only along or parallel to the isometric axes
- C. All faces are unequally distorted
- D. None of the above

10. In an axonometric drawing, the projection rays are drawn _____ to each other and _____ to the plane of projection.

- A. parallel.....oblique
- B. oblique.....parallel
- C. parallel.....perpendicular
- D. parallel....parallel

11. One method of drawing an ellipse that represents an isometric pictorial circle is known as:

- A. the box construction method
- B. the coordinate construction method
- C. the four-center approximation method
- D. the offset construction method

12. Non-isometric lines are located and sketched how?

- A. They are drawn parallel to the isometric axis.
- B. They are measured using the angle from the multiview.
- C. They are measured using a non-isometric template.
- D. They are located by determining the endpoints of the non-isometric line.

13. In an oblique sketch of a cube:

- A. the frontal face appears in its true shape
- B. both receding axes are at 30 degrees to the horizontal
- C. all faces are equally distorted
- D. the depth distances must be reduced

14. In an oblique drawing, all of the following angles are commonly used for drawing the depth axis, except:

- A. 30°
- B. 45°
- C. 60°
- D. 90°

15. In an oblique drawing, the projection rays are drawn _____ to each other and _____ to the plane of projection.

- A. oblique.....oblique
- B. oblique.....parallel
- C. parallel.....oblique
- D. parallel....parallel

16. All of the following are processes (as opposed to input or output. in a manufacturing business except:

- A. Material
- B. Planning
- C. Documenting
- D. Designing

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17. Following operations can make use of the CAD database, except:

- A. Designing
- B. Marketing
- C. Producing
- D. None of the above

18. Which of the following is the responsibility of the production manager?

- A. people
- B. plants
- C. processes
- D. all of the above

19. Which of the following would be a typical use for Product Data Management?

- A. tracking potential clients by Marketing
- B. generating variations of a preliminary design
- C. searching for how many designs used a particular fastener
- D. evaluating the strength of a rib support on a cast piece

20. Which design process involves responding to the emotional needs of the consumer?

- A. aesthetic design
- B. functional design
- C. systems design
- D. e-business

21. Which network system gives outside vendors access to a company's internal network?

- A. Intranet
- B. Extranet
- C. Internet
- D. Outernet

22. All of the following are part of a typical design team, except:

- A. vendors
- B. quality control specialists
- C. manufacturing engineers
- D. accountants

23. Which of the following input devices does not translate hand movements into instructions for the computer?

- A. Scanner
- B. Mouse
- C. Keyboard
- D. 3D Mouse

24. Which type of output device creates images which look and feel like photographs?
A. Electrostatic plotter
B. Laser printer
C. Dye-sublimation printer
D. Inkjet plotter
25. Which tool can be used to draw a 90 degree angle?
A. 30/60 triangle
B. protractor
C. drafting machine
D. all of the above
26. Which set of lead grades has a grade out of sequence?
A. H, HB, B, 3B
B. 7B, H, F, 3H
C. 6B, B, H, 4H
D. 9H, HB, B, 2B
27. Which type of line is part of a dimension?
A. break lines
B. phantom lines
C. extension lines
D. cutting plane lines
28. Which type of line is particular to section drawings?
A. break lines
B. phantom lines
C. extension lines
D. cutting plane lines
29. Which angle cannot be made with either a 45 or 30/60 triangle or a combination of the two?
A. 90
B. 70
C. 30
D. 15
30. A drawing instrument set usually contains all of the following, except:
A. bow compass
B. scale
C. dividers
D. extra leads
31. Which of the following operating systems is used with CAD systems?
A. DOS
B. UNIX
C. Linux
D. all of the above
32. Which line type is thin and light?
A. visible lines
B. center lines
C. construction lines
D. all of the above
33. Which line type is thick and black?
A. visible lines
B. center lines
C. construction lines
D. all of the above
34. What type of sketches are typically used in the refinement stage of the design process?
A. isometric
B. document
C. oblique
D. ideation
35. What type of sketch incorporates convergence?
A. isometric
B. perspective
C. oblique
D. multiview

ENGINEERING DRAWING Objective Questions ::

36. What type of sketch shows the front in true shape?
A. isometric
B. perspective
C. oblique
D. axonometric

37. What is the major difference(s) between perspective and parallel projection?

- A. Parallel projection can only be used with objects containing parallel edges.
- B. Perspective projection gives a more realistic representation of an object.
- C. Parallel projection is equivalent to a perspective projection where the viewer is standing infinitely far away.
- D. Perspective projection can only be used for creating oblique and not isometric pictorials.
- E. b and c**

38. What type of sketch uses a miter line?

- A. a two-view multiview
- B. an isometric pictorial
- C. a three-point perspective pictorial
- D. a three-view multiview**

39. Which type of line has precedence over all other types of lines?

- A. a hidden line
- B. a center line
- C. a visible line**
- D. none of the above

40. Which statement(s) is true about the precedence of lines?

- A. a hidden line has precedence over a center line**
- B. a center line has precedence over a visible line
- C. a visible line has precedence over a miter line
- D. all of the above

41. Where do the projection lines converge in a perspective sketch?

- A. the vanishing point**
- B. the ground line
- C. the horizon line
- D. the eye point

42. When you want to make the letters of a line of text narrower, you would set its:

- A. aspect**
- B. scale
- C. alignment
- D. font

43. When you want to make sure that all of the text stays to the right of a given point on the drawing, you would set its:

- A. aspect
- B. scale
- C. alignment**
- D. font

44. Which of the following is typically represented in a drawing but does not have a true physical counterpart on the object?

- A. edge of planar surface
- B. edge of a circular face
- C. corner of a rectangle
- D. limiting element of a curved surface**

45. A cutting plane normal to a face of a cube has to be _____ in order to cut an oblique face.

- A. rotated about one axis
- B. rotated about one axis and translated
- C. rotated about two axes**
- D. rotated about two axes and translated

46. All of the following are variables involved in the use of image planes, except:

- A. the object being viewed
- B. the size of the object**
- C. the eye of the viewer
- D. the image plane

47. In a VR system, all of the following statements about immersiveness are true, except:

- A. response time is an important factor
- B. both display resolution and display size can affect it
- C. the visual sense is the only sense to affect it**
- D. tracking body movement is an important factor

Answer: C

48. Imagine a "L" shaped face extruded into three dimensions. How many faces does it contain?

- A. seven
- B. eight**
- C. ten
- D. six

49. Which type of variable is the following list: Texas, Utah, California, Delaware?

- A. Nominal**
- B. Ordinal
- C. Scalar
- D. Vector

50. Which type of variable is the following list: Thinnest, Thin, Medium, Fat, Fattest?

- A. Nominal

B. Ordinal

- C. Scalar
- D. Vector

51. Drafters should use a _____ in a section view of a mechanical part that includes the cylindrical view of a threaded hole.

- A. Center line**
- B. Hatch line
- C. Poly line
- D. Dimension line

52. The section view drawing in which one fourth of an object has been marked for removal is known as a _____ section.

- A. Full
- B. Half**
- C. Quarter
- D. none of the above

53. In offset sections, offsets or bends in the cutting plane are all:

- A. 90 degrees**
- B. 180 degrees
- C. Either 90 or 180 degrees
- D. 30, 60, or 90 degrees

54. When filling an area with a hatch pattern in AutoCAD the drafter needs to be able to _____.

- A. see the entire bounding area to hatch**
- B. set Ortho on
- C. turn ISO grid off
- D. set the layer to Defpoints

55. To avoid having to dimension to a hidden feature the drafter can utilize a _____ section.

- A. Whole.
- B. Half
- C. broken out
- D. all of the above**

56. Objects that are symmetric can be shown effectively using this type of section:

- A. Quarter section
- B. Half section**
- C. Full section
- D. Symmetric section

57. This type of section is not in direct projection from the view containing the cutting plane:

- A. Revolved section
- B. Removed section**
- C. Broken-out section
- D. Full section

58. By using a _____ section of a cylindrical mechanical part the drafter should be able to show only one view of the part.

- A. Half
- B. Whole
- C. Revolved**
- D. broken out

59. The following is not included in title block of drawing sheet.

- A. Sheet No
- B. Scale
- C. Method of Projection
- D. Size of sheet**

60. Which of the following represent reducing scale?

- A. 1:1
- B. 1:2**
- C. 2:1
- D. 10:1

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