

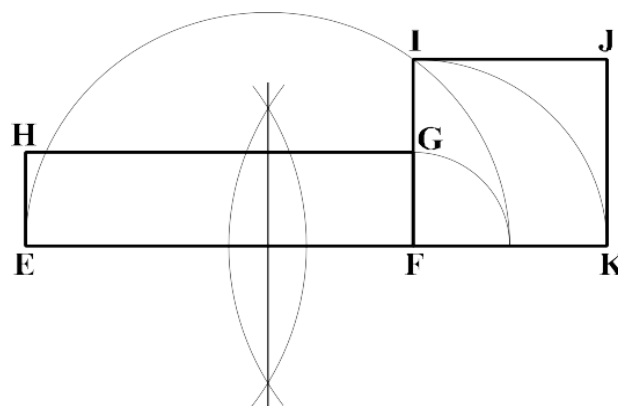
**TECHNICAL DRAWING**  
**FORMS 5**  
**MULTIPLE CHOICE PRACTICE TEST # 1**

Time: 45 minutes

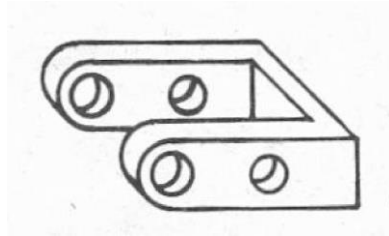
**INSTRUCTIONS:**

- Read each question carefully and select **ONLY** one of the responses.
  - Place the letter of the response next to the number of the appropriate question.
  - At the end of the test, go to the answer sheet and check your answers.
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1. In an isometric sketch, circles and arcs will appear as
    - A. segments
    - B. round, smooth lines
    - C. ellipses or part of ellipses
    - D. round arcs without distortions
  2. Which of the following instruments is used to draw irregular curves?
    - A. Compass
    - B. Protractor
    - C. Flexi-curve
    - D. Radius curve
  3. When a safety hazard cannot be eliminated, students should
    - A. avoid the hazard
    - B. ignore the hazard
    - C. guard or mark off the hazard
    - D. share the information with other students
  4. Which of the following represents the size relationship of the parts of an object to the whole?
    - A. Line
    - B. Scale
    - C. Shape
    - D. Proportion
  5. Which of the following correctly defines the locus of a point?
    - A. The calculated circumference
    - B. A point which moves and traces a path
    - C. The cutting tool attached to the lathe
    - D. A right-angled triangle wrapped around a cylinder
  6. Workers practice good housekeeping in the workplace to
    - A. prevent accidents
    - B. improve productivity
    - C. prevent equipment failure
    - D. organise tools and equipment
  7. Which of the following represent reducing scale?
    - A. 1:1
    - B. 1:2
    - C. 2:1

- D. 10:1
8. Which of the following lines is the conventional representation for dimension lines
- Continuous thick
  - Continuous thin
  - Chain thin line
  - Short zigzag thin
9. Representative fraction (RF) is defined as
- Length of an object in the drawing / Actual length of the object
  - Length of an object in the drawing / Isometric length of the object
  - Actual length of the object / Length of an object in the drawing
  - Isometric length of the object / Length of an object in the drawing
10. The internal angle of regular pentagon is \_\_\_\_ degrees.
- 72°
  - 108°
  - 120°
  - 150°
11. Which is **not** the use of a divider?
- To divide curved or straight lines into the desired number of equal parts
  - To draw circles
  - To transfer dimensions from one part of the drawing to another part
  - To set-off given distances from the scale to the drawing
12. A \_\_\_\_\_ is used to draw curves which are not circular.
- Compass
  - Protractor
  - French curves
  - Template



13. Which of the following is TRUE of the construction above?
- IJKF is half the area of EFGH.
  - EFGH is equal in area to IJKF.
  - EFGH is half the area of IJKF.
  - IJKF is twice the area of EFGH.



14. Which type of projection is illustrated in the diagram above?

- (A) Oblique
- (B) Orthographic
- (C) Isometric
- (D) Perspective

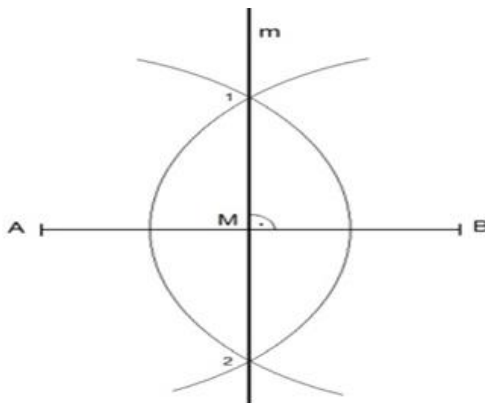
15. What is the value of each angle of a regular hexagon?

- A.  $120^\circ$
- B.  $135^\circ$
- C.  $720^\circ$
- D.  $108^\circ$

16. 'Ergonomics' is related to human

- A. Comfort
- B. Safety
- C. Both 'a' and 'b'
- D. None of the above

17. The diagram below shows the construction of the perpendicular bisector of the line AB.



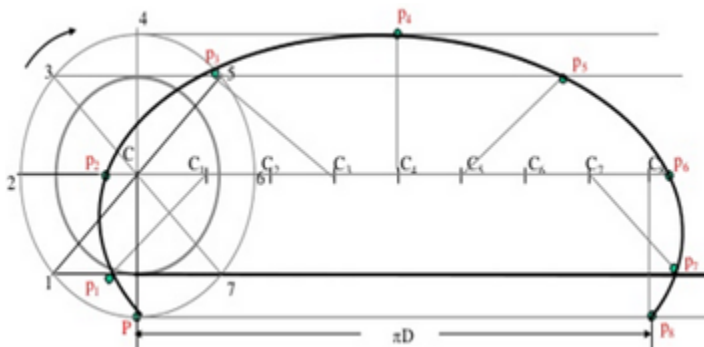
Which of the following statements is not true?

- A.  $AM=MB$
- B.  $MB=1/2AB$
- C.  $AM=2AB$
- D.  $AM+MB=AB$



18. The figure above shows a shaded section obtained due to the intersection of a plane that is parallel to the axes of the cones, what it the section called?

- A. Parabola
- B. Hyperbola
- C. Ellipse
- D. Cycloid



19. Which of the following describes the curve in the construction above?

- A. Cycloid
- B. Inferior trochoid
- C. Superior trochoid
- D. Epicycloid

20. A line of 1 meter is shown by 10cm on a scale. Its Representative fraction (RF) is

- A. 1:1
- B. 1:100
- C. 1:10
- D. 1:50

21. If two angles are said to be supplementary angles and one of the angle is of 122 ° then the other angle is of

- A. 35°
- B. 58°
- C. 60°
- D. 32°

22. The path described by any moving point is classified as

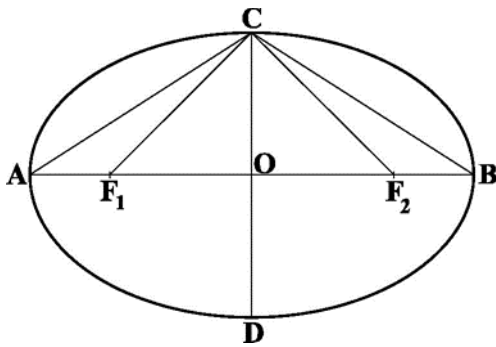
- A. ordinate ray
- B. rays
- C. line segment
- D. line

23. On a line, the sum of adjacent angles is equal to
- A.  $90^\circ$
  - B.  $120^\circ$
  - C.  $140^\circ$
  - D.  $180^\circ$
24. Which of the following is NOT a pictorial drawing?
- A. Axonometric
  - B. Isometric
  - C. Multi view
  - D. Perspective
25. What is the shape of a circle on an isometric drawing?
- A. Circle
  - B. Cycloid
  - C. Ellipse
  - D. Parabola
26. One method of drawing a circle in isometric is the \_\_\_\_\_ method.
- A. Approximate
  - B. Concentric circle
  - C. Focal point
  - D. Trammel
27. Which of the following are properties of parallelograms?
- I. The opposite angles are congruent.
  - II. The diagonals are perpendicular.
  - III. The adjacent angles are supplementary.
  - IV. The diagonals bisect each other.
- A. I and II only
  - B. II and III only
  - C. I, II and III
  - D. I, II, III & IV
28. Of the following options, which two angles are classified as complementary angles?
- A.  $120^\circ$  and  $60^\circ$
  - B.  $50^\circ$  and  $30^\circ$
  - C.  $65^\circ$  and  $25^\circ$
  - D.  $70^\circ$  and  $30^\circ$
29. A line drawn with a long section, short dash, and another long section is a \_\_\_\_\_.
- A. Hidden
  - B. Axis
  - C. Center
  - D. Radius
30. The ANSI, BS and ISO regulations used in technical drawing are referred to as

- A Codes
- B Building Codes
- C Regional Standards
- D International Standards

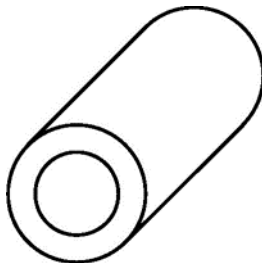
31. When designing a new product, which type of drawing is usually made FIRST?

- A Scale
- B Sketch
- C Detail
- D Engineering



32 .In the ellipse above, which sum of distances is equal to AB?

- A  $F_1C + F_2C$
- B  $AC + BC$
- C  $F_2C + CD$
- D  $F_1C + CB$

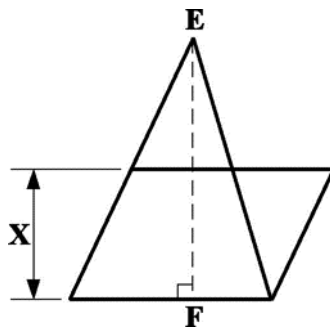


33 In the diagram above, the circles and curves are shown in their true shapes. The method of projection used is

- A oblique
- B trimetric
- C isometric
- D orthographic

34 Which of the following surfaces is developed in the shape of a 'T' by unfolding or unrolling?

- A A square pyramid
- B A triangular prism
- C A rectangular box with lid
- D A hexagonal truncated prism

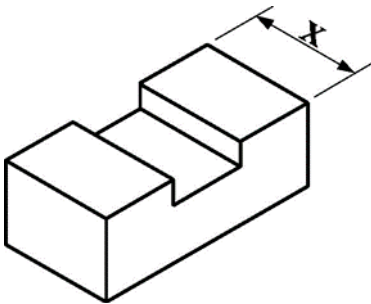


35 The construction above shows how to draw a parallelogram equal in area to a given triangle. If EF is 30, then “X” is

- A 10
- B 15
- C 20
- D 30

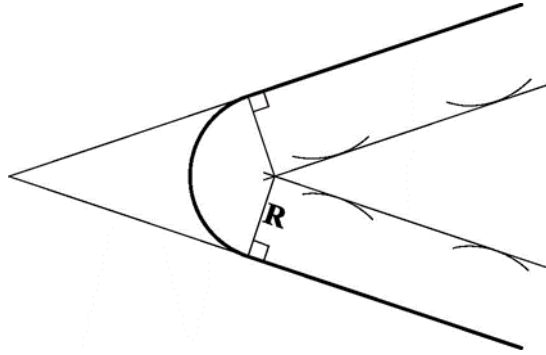
36 Which of the following illustrates the normal of an ellipse?

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



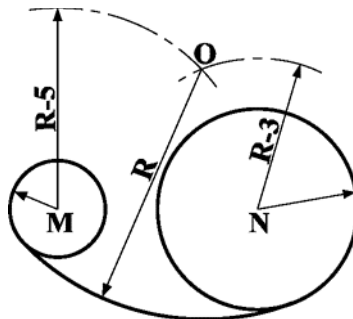
37 The diagram above is to be reproduced in third angle projection. On which of the following views can the distance “X” be seen?

- A Plan and front elevation
- B Plan and right side elevation
- C Front elevation and left side elevation
- D Front elevation and right side elevation



38 The diagram above shows the method of finding the centre of an arc, with radius  $R$ , which is tangential to

- A a straight line
- B a line and a circle
- C two straight lines meeting at right angles
- D two straight lines meeting at any angle



39 the drawing above, which of the following letters indicates the centre of the arc which is tangential to the two circles?

- A M
- B N
- C O
- D R

40 In an isometric sketch, circles and arcs will appear as

- A segments
- B round, smooth lines
- C ellipses or part of ellipses
- D round arcs without distortions

## **REFERENCES**

CXC CSEC Technical Drawing Syllabus 2015 Edition Multiple Choice Sample Test

CXC CSEC Industrial Technology Syllabus 2015 Edition Multiple Choice Sample Test

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