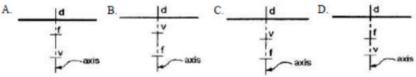
BA SANGAM COLLEGE YEAR 13 TECHNICAL DRAWING WORKSHEET 4

(Attempt the questions at the back of your exercise book)





- 2. Which of the following angles is taken for the measurement of the required lengths for the isometric scale?
 - 60⁰ a.)
 - 45° b.)
 - 30⁰ c.)
 - 15⁰ d.)
- 3. Which of the following spirals uses the scale given below?
 - A. Conic
 - B. Cylindrical
 - C. Logarithmic
 - D. Archimedean
- 4. Which of the following symbols represents an illuminating lamp

B.



с. X

D.

5. The diagram given below shows a plain scale which measures up to 4 meters. The reading marked X on the scale is A. 0m B. 1m

C. 2m D. 4m 6. If point P is located 15 mm outside a rolling circle which has a diameter of 40 mm and rolls inside a base circle radius 100 mm then the angle for 1 revolution would be A. 54° B. 72° C. 126° D. 135° 7. If the lead of 1¼ revolution helix is 120 mm and the outside diameter is 60 mm then the pitch

angle would be approximately D. 46°

| A. 27° | B. 33° | C. 39° |
|--------|--------|--------|
| | | |

- 8. Given the elevation of a cone cut by a cutting plane Z-Z, what would be the name of the shape produced? A. Circle
 - B. Ellipse
 - C. Parabola
 - D. Hyperbola
- 9. The study of the environment for which an artifact is intended is known as
 - A. ergonomics.
 - B. market research.
 - C. anthropometrics.
 - D. ecology.

10. Which of the following is the first step in finding the centroid of an irregular quadrilateral?

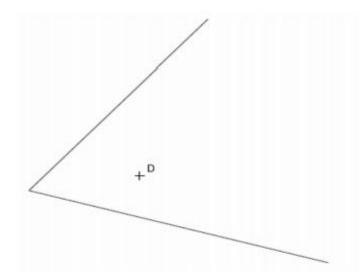
- A. Bisect each side to locate the mid-point.
- B. Inscribe a circle around the quadrilateral.
- C. Divide the quadrilateral into two triangles.
- D. Circumscribe a circle around the quadrilateral.



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PART A Given: The asymptotes an acute angle and a point D on the curve.

Required: Construct hyperbolic curve





GIVEN: The elevation of a cone by cutting plane X-X

- REQUIRED: Draw the Plan Project the shape of section
 - State the ratio of eccentricity and name the curve.

