

- Q.28 Give comparison of first angle and third angle projections.
- Q.29 Show the projections of a point situated placed in third quadrant.
- Q.30 If a point 10mm from the H.P. and 15 mm from V.P., then for second quadrant.
- Q.31 Explain sectional view.
- Q.32 Draw the layout of first angle projection.
- Q.33 Write the method of represented section line.
- Q.34 Draw a rough sketch for the development of a cone.
- Q.35 Show the Buttress threads by rough sketch.

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Draw a full size diagonal scale to read meters. Decimeters and Centimeters. Take R.F. as 1:7 and it should be long enough to measure up to 7 meters. Indicate the following distance on the scale, 5 meters 4 decimeter 9 centimeters
- Q.37 Write general rules for orthographic projection.
- Q.38 Draw the development of a right circular cylinder of diameter 54 mm and height 74 mm.

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#### **Mechanical Engineering** **Subject:-Engineering Drawing**

Time : 3Hrs.

M.M. : 100

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Size of trimmed drawing sheet of size A<sub>3</sub> is  
 a) 210 x 297      b) 297 x 420  
 c) 200 x 295      d) 210 x 310
- Q.2 7 H grade pencil is  
 a) Hardest      b) Softest  
 c) Medium      d) None of these
- Q.3 Continuous thin line is used to show  
 a) Dimension line      b) Leader line  
 c) Projection line      d) All of these
- Q.4 Gothic lettering has all the alphabets and numeral of \_\_\_\_\_ thickness.  
 a) Non uniform      b) Uniform  
 c) Both (a) and (b)      d) None of these
- Q.5 Section line are generally drawn at an angle of \_\_\_\_\_ to the horizontal.

(60)

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- a)  $30^\circ$
- b)  $45^\circ$
- c)  $90^\circ$
- d)  $60^\circ$

Q.6 In 7:4 ratio lettering, the width is taken as \_\_\_\_ units.

- a) 7
- b) 4
- c) 11
- d) 3

Q.7 Instrumental Double stroke lettering is obtained in \_\_\_\_\_ stroke of pencil.

- a) One
- b) Two
- c) Three
- d) Four

Q.8 Full size scale is indicated as

- a) 1:1
- b) 10:10
- c) 100:100
- d) All of these

Q.9 In first angle projection, top view is placed

- a) Above front view
- b) Below front view
- c) Both (a) and (b)
- d) None of these

Q.10 The length of the top view is same as the length of

- a) Front view
- b) Side view
- c) Both (a) and (b)
- d) None of these

### SECTION-B

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

Q.11 Define engineering drawing.

Q.12 Classify engineering drawing.

- Q.13 What is centre line.
- Q.14 What is the gothic lettering?
- Q.15 What is free hand lettering.
- Q.16 Define condensed lettering.
- Q.17 What is angle of sectional lines?
- Q.18 Define dimensioning.
- Q.19 Define horizontal plan.
- Q.20 Define scale.

### SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

- Q.21 Explain drafting machine with the help of neat sketch.
- Q.22 Classify engineering drawing.
- Q.23 Draw the following free hand take size equal to 25 mm height "INDIAN STANDARD INSTITUTION"
- Q.24 Name and explain types of dimensioning.
- Q.25 Draw a pentagon when length of a side is 50 mm.
- Q.26 Draw a plain scale to show meters and decimeters when 1 meter is represented by 4.5 centimeters. The scale should be long enough to measure up to 5 meters. Marks a distance of 4 meters and 7 decimeters on the scale.
- Q.27 Define scale. Explain types of scales.