

December 2019

TECHNICAL DRAWING

Time Allowed: 2 Hours

Full Marks: 35

Answer to Question No.1 is compulsory and to be answered first.

This answer is to be made in separate loose script(s) provided for the purpose.

Maximum time allowed is 30 minutes, after which the loose answer scripts will be collected and fresh answer scripts for answering the remaining part of the question will be provided.

On early submission of answer scripts of Question No.1, a student will get the remaining script earlier.

Answer any three questions from the rest.

1. Fill in the blanks (any eight): 1x8
- i) T square is used for drawing _____.
 - ii) For drawing small objects _____ scale is used.
 - iii) Lettering is usually done in _____ letters.
 - iv) For hyperbola $e =$ _____ \times maximum length to be measured.
 - v) Line for hidden edges are drawn as _____ of approximately equal lengths.
 - vi) Length of scale = _____.
 - vii) In first-angle projection method, the _____ view is always _____ the _____.
 - viii) In _____ project, they _____ are perpendicular to the _____ projection.
 - ix) Projection on _____ always denotes true inclination with HP.
 - x) Out of two main planes, the _____ plane is rotating.
 - xi) A straight line is the _____ distance between two points. *Actual*
 - xii) The two methods of dimensioning are _____ and _____.
2. Draw "BISWA BANGLA" in single stroke capital letter in 7:4 ratio in 30mm height. 9
3. a) Draw a regular hexagon of side 30mm sides. 9
 b) Draw a regular heptagon in circle radius 40mm. 5+4
4. In a map a line of 10cm length represents 20km in the field. Calculate the R.F. and draw a diagonal scale red up to 30km measure a distance of 22.5km. 9
5. Draw the Involute of a circle of 40mm diameter. Also draw a normal and tangent at any point on the curve. 9
6. Draw the projection of a 65mm long straight line, which is inclined at 60° top the HP. It's one end is 20mm above the HP and is parallel to and 30mm in front of VP. 9
7. A cylinder block of base 60mm diameter and height 90mm standing on the HP with its axis perpendicular to the HP. Draw its isometric view. 9

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