B.Arch. First Semester (CGS)

10002 : Architectural Graphics-I : 01 AR 02

P. Pages : 1

Time : Four Hour

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AW - 2934

Max. Marks : 80

Notes :
1. All question carry equal marks.
2. Question No. **one & six** is compulsory.
3. Use of slide rule logarithmic table, Steam tables, Mollier's Chart, Drawing instrument, Thermodynamic table for moist air, Psychrometric Chart and Refrigeration charts is permitted.
4. I.S.I. Hand book for structural Steel section, I.S. Code 800/1962 or 1964, I.S. 456 (Revised) I.S. 875 may be consulted.
5. Use of D.A. Lows "Pocket Book for Mechanical Engineers" is permitted.
6. Discuss the reaction, mechanism wherever necessary.
7. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Draw the all architectural Graphics symbolic codes with names. **20**

2. a) Construct a diagonal scale of R.F.$=\frac{1}{6250}$ to read upto 1.0 kilometer & to read meters on it. Show a length of 653 meters unit. **12**

b) Construct a scale of 1.5 to show decimeters & centimeters & to read upto 1 meter. Show the length of 7.6 dm on it. **8**

OR

3. A line AB 65 mm long has its end A 20 mm above the H. P. & 25 mm in front of the V. P. The end B is 40 mm above the H. P. & 65 mm in front of the V. P. Draw the projections of AB & show its inclinations with the H. P. & the V. P. **20**

4. A hollow cylinder, 50 mm outside diameter, axis 70 mm long & thickness 8 mm has its axis parallel to the V. P. & inclined at 60° to the vertical it is cut in two equal halves by a horizontal section plane. Draw its sectional top view. **20**

OR

5. Draw the projection of a cylinder 75 mm diameter & 100 mm long lying on the ground with its axis inclined at 30° to the V. P. & parallel to the ground. **20**

6. Draw the plan Elevation & section of Room having following details. **20**

1) Room size 3.0 m × 4.0 m
2) Door size 1.0 m × 2.10 m
3) Window size 1.50 m × 1.20 m (minimum 2 No.)
4) Slab HT 3.00 m
5) Lintel HT 2.10 m
6) Plinth HT 1.0 m
7) Sill level .9 m
8) Slab thickness .10 m

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