

B.Arch. First Semester (CGS)

10002 : Architectural Graphics - I : 01 AR 02

P. Pages : 2

Time : Four Hours



AV - 2600

Max. Marks : 80

- Notes :
1. All question carry equal marks.
 2. Question No. **One & Six** is compulsory.
 3. Diagrams and chemical equations should be given wherever necessary.
 4. Use of slide rule logarithmic tables, Steam tables, Moller's Chart, Drawing instrument, Thermodynamic table for moist air, Psychrometric Charts and Refrigeration charts is permitted.
 5. 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.
 6. Use of D.A. Lows "Pocket Book for Mechanical Engineers" is permitted.
 7. Discuss the reaction, mechanism wherever necessary.
 8. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Draw the Architectural Graphics symbolic codes for the following. 12
 - 1) Brick
 - 2) Wood
 - 3) Metal
 - 4) Sand
 - 5) R.C.C. concrete
 - 6) Glass
- b) Draw the word COLLEGE in English / Architectural alphabets in vertical as well as inclined style Assume height of lettering. 8
2. a) Construct a diagonal scale of R.F. $\frac{1}{4000}$ to show metres & long enough to measure up to 500 meters & show the distance of 25.60 metres. 12
- b) Construct a scale of R.F. $= \frac{1}{60}$ to read yards & feet & long enough to measure up to 5 yards. Marks on it a distance of 4y 2F. 8

OR

3. Draw the projections of 80 mm long line in the following positions. 20
 - 1) Parallel to both the H.P. & V.P. & 30 mm from each.
 - 2) Parallel to & 30mm above the H.P. & in the V.P.
 - 3) Parallel to & 40 mm in front of the V.P. & in the H.P.
 - 4) Perpendicular to the H.P. 20 mm in front of V.P. & its one end 15 mm above the H.P
 - 5) Perpendicular to the V.P. 25 mm above the H.P. & its one end in the V.P.
 - 6) Inclined at 45° to the V.P. in the H.P. & its one end in the V.P.

AV - 2600

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4. Draw the projections of a circle of 5 cm diameter having its plane vertical & inclined at 30° to the V.P. its centre is 4cm above the H.P. & 3 cm in front of the V.P. show also its traces. 20

OR

5. A cylinder of 40 mm diameter 60 mm height & having its axis vertical is cut by a section plane perpendicular to the V.P. inclined at 45° to the H.P. & intersecting the axis 32 mm above the base. 20

Draw its front view, sectional top view, sectional side view, & true shape of the section.

6. Draw the plan, Elevation & section of Drawing Hall having following details. 20

- 1) Room size 4.0 mx 5.0 m
- 2) Room HT 3.0 m
- 3) Lintel HT 2.10 m
- 4) Sill HT .90 m from plinth
- 5) Plinth HT 1.00 m
- 6) Door size 1.00 m x2.10 m
- 7) Slab Thickness .10 m
- 8) Parapet wall .90 m HT.
