



C23-EE-406

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BOARD DIPLOMA EXAMINATION, (C-23)
MARCH/APRIL—2025
DEEE – FOURTH SEMESTER EXAMINATION
ELECTRICAL ENGINEERING DRAWING

Time : 3 Hours]

[Total Marks : 60

PART—A

5×4=20

Instructions : (1) Answer **all** questions.
(2) Each question carries **five** marks.

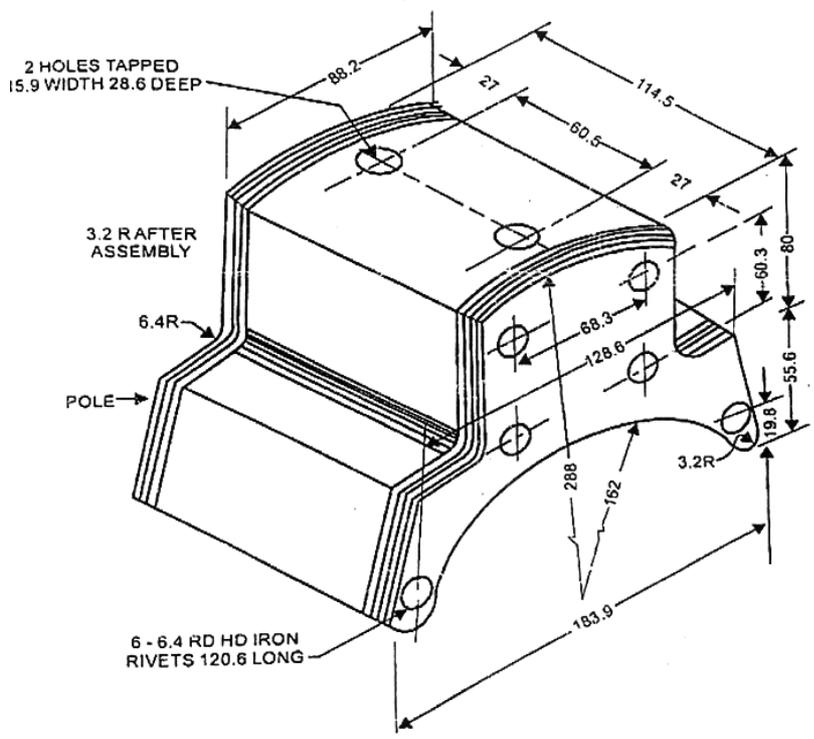
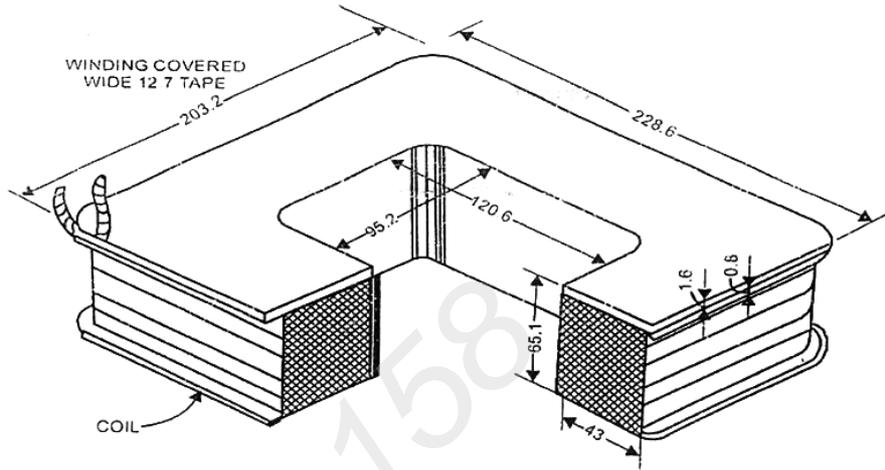
1. Draw sectional end view of unprotected flange coupling with shaft diameter of 40 mm (not to scale).
2. Draw the sketch of guarding system for HT line over LT line on same support.
3. Draw a neat sketch of yoke and pole assembly of a DC machine (not to scale).
4. Draw sectional plan and elevation of three stepped core section of a transformer with core diameter of 30 mm and height 50 mm.

PART—B

20×2=40

- Instructions :** (1) Answer *any two* questions.
 (2) Each question carries **twenty** marks.

5. The isometric view of the field coil of a DC machine is shown in figure below and the details of the pole in figure shown below. Draw the assembled sectional elevation and plan.



6. Draw the half sectional elevation and end view of a 5HP slip ring induction motor. Assembly with the following dimensions.

Outer diameter of stator stampings	:	288 mm
Inner diameter of stator stampings	:	216 mm
Stator core length	:	106 mm
Thickness of the stator frame	:	31 mm
Type of stator slot	:	Open
Number of stator slots	:	36
Size of stator slot	:	18 mm × 12 mm
Airgap	:	2 mm
Outside diameter of the rotor stamping	:	212 mm
Inside diameter of the rotor stamping	:	36 mm
Rotor core length	:	106 mm
Type of rotor slot	:	Open
Size of rotor slot	:	12 mm × 8 mm
Shaft diameter at center	:	36 mm
Shaft diameter at bearing	:	32 mm
Size of stator frame ducts	:	8 mm
Size of rotor ducts	:	4 mm

Assume any missing data. Take a suitable scale.

7. Develop three phase ac wave winding for an AC machine having 24 slots one conductor slot and 4 poles.

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