

C14-EE-407

4446

BOARD DIPLOMA EXAMINATION, (C-14) OCTOBER/NOVEMBER-2018 DEEE-FOURTH SEMESTER EXAMINATION

ELECTRICAL ENGINEERING DRAWING

Time: 3 Hours]

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[Total Marks: 60

PART-A

5X4=20

Instructions : 1. Answer All questions.

2. Each question carries **Five** marks.

1. Draw the plan of given sectional isometric view of fuse.



- Draw the end view of DC generator with four main poles inter poles and yoke, etc (not to scale)
- 3. Draw the wiring diagram of star delta starter in starting conditions
- 4. Draw the cross sectional view of H-type and 3-core belted cables

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PART-B

2X20=40

- Instructions : 1. Answer any **Two** questions.
 - 2. Each question carries **Twenty** marks.
 - 3. Diagrams must be legible
 - 5. (a) Develop $3-\phi$ lap winding for a A C machine having slots, one conductor per slot and 4 poles

(b) Draw the following views a 1- ϕ , 5 kVA 220/110 V transformer.

- Front Elevation full section i.
- ii. Plant full in section

The detailed dimensions of the parts are as follows:

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Core	Cross section of the core	One step core
	Diameter of circum circle	7.5cm
	Distance between the adjacent	15cm
	centres of core	
Yoke	Height of Yoke:	8cm
L T winding	Outside diameter of L.T Coil	9cm
	Inside diameter of L.T Coil	8cm
	Height of L T winding	23cm
	Number of turns per limb	50
H T winding	Outside diameter of H.T coil	13.5cm
	Inside diameter of H.T Coil	11cm
	Height of H. T coil	23cm
	Number of turns per limb:	100
Total height of transformer		40cm

6. (a) Draw the sketch of steel wire guy and strut guy

(b) Draw the following views of a 7.55 HP, 400/440 V, 1440 r.p.m 3- ϕ slip ring induction motor

- Half sectional front elevation i.
- ii. Half sectional end view

1	Outside diameter of the stator stampings	280mm
2	Inside diameter of the stator stampings	216mm
3	Stator core length	106mm
4	Thickness of the stator frame	31mm
5	Air gap	2mm
6	Outside diameter of rotor stampings	212mm
7	Inside diameter of rotor stampings	36mm
8	Rotor core length	106mm
9	Shaft diameter	
	a) At centre	36mm
	b) At bearing	32mm

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Open
36
18 x 2mm

The stator frame has eight and rotor stampings have four equally spaced ducts for ventilation

- 7. (a) Draw the schematic diagram of thermal power plant
 - (b) Draw the dimensioned sketch of plate earthing

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