

- [illegible]

(ENGLISH)

[TIME ALLOWED—3 HOURS]

(MARKS—100)

DISTRIBUTION (THEORY-III)**Marks**

1. (a) Fill in the blanks :— 5
- (i) earthing is used for domestic wiring.
 - (ii) Shell type transformer has..... magnetic paths.
 - (iii) the iron losses of transformer is find out by..... circuit test.
 - (iv) The earth resistance is measured by.....
 - (v) energy meter is used for commercial purpose.
- (b) Match the pair :— 5
- | ‘A’ Group | ‘B’ Group |
|-----------------------------|------------------------------|
| (i) Iron losses. | (a) Transformer protection |
| (ii) Copper losses. | (b) Open circuit test |
| (iii) Buchhol’s relay. | (c) Short circuit test |
| (iv) Plate earthing. | (d) DC supply |
| (v) Moving coil instruments | (e) Domestic wiring purpose. |
- (c) State *true* or *false* :— 5
- (i) 2 to 2.5 microfarad capacitor is used in ceiling fan.
 - (ii) Asbestos is a good conducting material.
 - (iii) The flow of electrons is called current.
 - (iv) Nichrome heating element is used for geyser.
 - (v) Universal motor is used in hair dryer.
- (d) State full forms :— 5
- (i) NVC
 - (ii) OLC
 - (iii) CT and PT
 - (iv) ICDP
 - (v) ICTP.
2. Attempt any *two* :— 16
- (a) Explain the types of three phases cables.
 - (b) Explain the earth resistance tester.
 - (c) Explain the power factor meter.
 - (d) Explain the pipe earthing with neat sketch.
3. Answer the following questions (any *two*) :— 16
- (a) Explain the necessity of earthing.
 - (b) Explain the function of breather and conservator tank.
 - (c) Differentiate between core type and shell type transformer.
 - (d) Explain the cooling methods of transformer

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4. Attempt the following (any *two*) :— 16
- (a) Explain the impedance of relay.
 - (b) Explain the parts of three phase transformer.
 - (c) Explain the precautions for transformer.
 - (d) Explain the scott connection of transformer.
5. Write a short note :— 16
- (a) Energy meter
 - (b) Buchhol's relay
 - (c) CT
 - (d) PT
 - (e) Wattmeter
 - (f) Busbar.
6. Answer the following question (any *two*) :— 16
- (a) Explain the auto transmission with circuit diagram.
 - (b) Explain the open Circuit test and short circuit test of transformer.
 - (c) Explain the classification of circuit breaker.
 - (d) Explain the losses of transformer.
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