

MAHARASHTRA STATE BOARD OF VOCATIONAL EXAMINATION, MUMBAI

SUPPLEMENTARY EXAMINATION – JANUARY 2013

CERTIFICATE COURSE IN ELECTRICAL EQUIPMENT SERVICES (302211)

TIME ALLOWED - 3 Hrs.

MARKS – 100

SUBJECT :- DOMESTIC APPLIANCES (THEORY-II)

Q.1) A) Fill in blanks (5)

- 1) is used for hammering winding
(Ball pin hammer, mallet, Cross pin hammer)
- 2) is semiconductor material
(glass, Copper, Germanium)
- 3) Electric heating element made from
(Copper, Nycrome, Brass)
- 4) Dry wood is good (Conductor, Semi conductor, Insulator)
- 5) If insulation resistance between conductor and earth is not
less than..... then it is consider as good.
(1M Ω , 5M Ω , 10M Ω)

Q. 1) B) Match the following (5)

‘A’

‘B’

- | | |
|-----------------------|----------------------|
| 1) Combination pliers | a) Self Induction |
| 2) Transformer | b) to twist the wire |
| 3) Choke | c) Volt |
| 4) Voltage | d) Ω |
| 5) Resistance | e) Mutual Induction |

Q. 1) C) True or False (5)

- 1) A small screw driver is called a connector
- 2) A cable means an insulation covered conductor.
- 3) The emfs induced in the primary and secondary winding oppose the
applied emf.
- 4) A permanent capacitor motor is used in a ceiling fan
- 5) Aluminum is ferromagnetic material

Q. 1) D) Write the long form. (5)

- 1) VIR 2) CT 3) T.W. Switch 4) RMS 5) MKS

Q. 2) Answer the following. (any Two) (16)

- 1) Example hot plate with diagram.
- 2) Explain Types of Bearing and necessary
- 3) Draw diagram of capacitor start induction run motor.

Q. 3) Answer the following. (any Two) (16)

- 1) Table fan does not start write the causes and remedies.
- 2) What is catching accessories Explain in brief.
- 3) Explain different types of screw driver and its use .

Q.4) Answer the following (any Two) (16)

- 1) What is soldering and explain its important and necessary.
- 2) Explain use of insulator material in motor winding.
- 3) Explain types and use of pliers.

Q.5) Answer the following (any four) (16)

- 1) Explain adjustable spanner with figure.
- 2) Explain wire gauge with figure.
- 3) What is fuse and explain its types.
- 4) What is Fleming right hand rule?
- 5) Write a note on delta connection.

Q. 6) Answer in brief (any two) (16)

- 1) Compare Immersion heater & Geyser.
- 2) Explain D. C. series motor with fig. and it's characteristics.
- 3) Why megger testing is necessary before giving supply to new wiring installation.

