

Total No. of Printed Pages—4

24/VC/EL

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ELECTRONICS

(Vocational Course)

Full Marks : 30

Time : 1 hour

The figures in the margin indicate full marks for the questions

1. Choose the correct answer : 1×8=8

- (a) In Fleming's left hand rule, the middle finger is used to show the direction of
- (i) electric current
 - (ii) magnetic current
 - (iii) force
- (b) What is the solution when mixer/juicer/grinder does not function in full speed?
- (i) Check motor
 - (ii) Check the speed control and replace if defective
 - (iii) Switch off and unplug
- (c) Which of the following works on the principle of electromagnetic induction?
- (i) Fuse
 - (ii) Relay
 - (iii) None of the above

(2)

- (d) In which part of microwave oven, turntable motor is located?
- (i) Microwave generation
 - (ii) Power supply
 - (iii) Cooking cavity
- (e) _____ all the electrical equipments before use.
- (i) Clean
 - (ii) Inspect
 - (iii) Label
- (f) What type of winding is mainly used in low voltage, high current machines?
- (i) Wave winding
 - (ii) Lap winding
 - (iii) Rotor winding
- (g) Fleming's right-hand rule is applicable for
- (i) electric motor
 - (ii) electrical generator
 - (iii) d.c. motor
- (h) Which of the following is not a property of magnetic field lines?
- (i) Magnetic field lines always cross each other
 - (ii) Magnetic field lines never cross each other
 - (iii) Magnetic field lines always start from north pole

(3)

2. Answer the following questions in 1 word or in 1 sentence each (any *four*): 1×4=4

- (a) What is first aid?
- (b) The stationary part of the motor is called _____.
- (c) What is the basic SI unit of magnet?
- (d) Write the full form of OLP.
- (e) Define fuse.
- (f) What is the function of magnetron in microwave oven?

3. Answer the following questions in 3 or 4 sentences each (any *three*): 2×3=6

- (a) State the parts of juicer.
- (b) What is electromagnetic induction?
- (c) What are the uses of electric motor?
- (d) What are the steps in case the mixer grinder stops due to OLP?
- (e) What is fire-extinguisher and its types?

(4)

4. Answer the following essay-type questions (any *three*) :
4×3=12

- (a) What is chemical hazard? Give suitable example.
What are the seven common electrical hazards?
- (b) What is solo microwave oven? Explain the working
of microwave oven.
- (c) Explain various functions of electromagnetical parts
of mixer/grinder.
- (d) What is circuit breaker? Explain its types and
working of a circuit breaker.
- (e) What are the basic safety rules every employee
should follow?

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