Meghalaya Board of School Education

QUESTION PAPERS

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Total No. of Printed Pages—4

24/VC/EL

2024

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

(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

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. 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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