

**F-31**

Roll No. ....

Total No. of Questions : 28]

[Total No. of Printed Pages : 4

**XAPBIAJKLK23**

**9931**

**ELECTRONICS AND HARDWARE**

**(Vocational)**

Time : 2.30 Hours]

[Maximum Marks : 60

**Section-I**

**(Very Short Answer Type Questions)**

**1 each**

1. What are the major problems related to sustainability ?  
(A) Food (B) Water  
(C) Fuel (D) All of these
2. A Relay trips the circuit breaker when there is :  
(A) Short circuit (B) Overload  
(C) Both (A) and (B) (D) None of these
3. Fleming's left hand rule is used to find out the .....
4. The S.I. unit of power is :  
(A) Watt (B) Kilowatt  
(C) Kilowatt hour (D) Volt

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5. Fuse can be used both AC      DC circuits. (True/False)
6. A mixer/grinder grinds food grains by employing :
- (A) Grinding stones
  - (B) High speed spinning blades
  - (C) Low speed spinning blades
  - (D) Crushing stones
7. RPM is acronym for .....
8. Microwaves are .....
- (A) Electromagnetic waves      (B) X-rays
  - (C) Radio-waves      (D) UV-rays
9. .... (a dry powder) is a chemical used in fire extinguishes to extinguish fire.
10. Hazard can be :
- (A) Natural      (B) Man-made
  - (C) Both (A) and (B)      (D) None of these

### Section-II

(Short Answer Type Questions-I) (20-30 words)      2 each

11. What are the barriers of Effective Communication ?
- 12 Briefly explain the 'Time Management' skill.

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13. What is the shortcut way of copying and pasting the contents of a Word File ?
14. Explain how the quality of 'Self-Confidence' help an Entrepreneur ?
15. What is Sustainable Development ?
16. What is a Relay ?
17. Which rule is used to find out the direction of current in a generator ?  
Illustrate.
18. What is a Mixer ? What is it commercially used for ?
19. What is the function of turn table motor and cavity Lamp in a Microwave oven ?
20. What is First Aid ? What is the full form of CPR ?

### **Section-III**

**(Short Answer Type Questions-II) (40-50 words)      3 each**

21. List any *three* self-management techniques. Explain any *one* of them.
22. What is Electromagnetic Induction ? Who discovered the phenomenon ?
23. What are the factors that confirm the proper functioning of a repaired Mixer/Juicer/Grinder ?
24. Which component of Mixer/Grinder is responsible for speed control ?  
What steps should be taken to increase the life of Mixer/Grinder ?

**Turn Over**

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25. What is the function of Magnetron and High Voltage transformer in a Microwave Oven ?
26. What are the major routes of exposure to chemical Hazards ?

#### **Section-IV**

**(Long Answer Type Questions) (100–150 words) 6 each**

27. The faults such as intermittent heating, display problems of microwave are very common after few years of use. In addition to these faults what are some other commonly occurring faults and their possible solutions ?

**Or**

Explain the cleaning and maintenance procedure of Microwave oven.

28. What is Effective Communication ? Giving examples, explain the 7C's of effective communication.

**Or**

Writing skills are a part of Communication Skills ? Frame a paragraph in your own words describing the need of having good communication skills.

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