

Higher Secondary (Vocational)
CLASS XII
Semester III
WATER PURIFIER, MICROWAVE OVEN AND INVERTER SERVICING
Full Marks: 20

Multiple Choice Questions (Choose the correct answer)

1. What is the primary goal of occupational safety?
 - a) To increase productivity
 - b) To prevent workplace accidents and injuries
 - c) To reduce work hours
 - d) To improve customer service
2. What type of Personal Protective Equipment (PPE) is required when handling electrical appliances?
 - a) Cotton gloves
 - b) Insulated rubber gloves
 - c) Leather shoes
 - d) Plastic sandals
3. Which safety measure should be taken when working with electrical appliances?
 - a) Work with wet hands
 - b) Use insulated tools
 - c) Use metal rods to test circuits
 - d) Ignore safety precautions
4. What should you do first in case of an electric shock?
 - a) Pour water on the victim
 - b) Disconnect the power source
 - c) Give food to the victim
 - d) Call for help without taking action
5. What type of fire extinguisher should be used for electrical fires?
 - a) Water-based
 - b) CO₂ (Carbon dioxide)
 - c) Foam-based
 - d) Sand bucket

6. What is the correct way to lift heavy objects safely?

- a) Use your back muscles
- b) Bend your knees and lift with your legs
- c) Keep your legs straight and bend at the waist
- d) Lift quickly to avoid strain

7. What is the purpose of earthing in electrical appliances?

- a) To increase voltage
- b) To prevent electric shocks
- c) To speed up appliance performance
- d) To reduce appliance weight

8. What should be checked before using power tools?

- a) The color of the tool
- b) The weight of the tool
- c) The tool's power rating and safety measures
- d) The warranty card

9. Why is ventilation important in a workplace dealing with electrical appliances?

- a) To keep the area clean
- b) To prevent overheating and gas buildup
- c) To reduce noise levels
- d) To improve lighting

10. What is the first step in risk assessment?

- a) Eliminating hazards
- b) Identifying hazards
- c) Ignoring hazards
- d) Reporting to the manager

11. What is the primary function of a water purifier?

- a) To store water
- b) To remove impurities and contaminants
- c) To cool water

d) To add minerals to water

12. Which technology is used in a Reverse Osmosis (RO) water purifier?

a) UV radiation

b) Carbon filtering

c) Semi-permeable membrane

d) Boiling

13. What is the role of UV light in water purifiers?

a) To add minerals to water

b) To kill bacteria and viruses

c) To filter out dust particles

d) To remove heavy metals

14. What is the function of a magnetron in a microwave oven?

a) To generate microwaves for cooking

b) To cool the oven

c) To increase power supply

d) To store electricity

15. Why should metallic objects not be used in a microwave oven?

a) They can cause overheating

b) They can cause sparks and damage the oven

c) They can absorb microwaves

d) They can reduce cooking time

16. Which part of a mixer grinder rotates to grind food?

a) Base plate

b) Motor shaft

c) Blade set

d) Body cover

17. What is the main material used for mixer grinder jars?

- a) Glass
- b) Plastic
- c) Stainless steel
- d) Aluminum

18. How can one prevent motor overheating in a mixer grinder?

- a) Use for a long time continuously
- b) Avoid overloading and give rest periods
- c) Increase motor speed
- d) Reduce the blade size

19. What is the purpose of a thermal fuse in electrical appliances?

- a) To prevent overheating
- b) To increase voltage
- c) To decrease electricity consumption
- d) To store energy

20. How does a carbon filter function in a water purifier?

- a) It removes physical particles
- b) It removes chlorine, bad odor, and organic compounds
- c) It kills bacteria
- d) It adds minerals to water