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Roll No.

Total No. of Questions : 23]

[Total No. of Printed Pages : 4

12thARM(H/Z)JKUTL2024-25

663

ELECTRONICS AND HARDWARE

(Vocational)

Time : 2½ Hours]

[Maximum Marks : 50

SECTION-A

(OBJECTIVE TYPE QUESTIONS)

1 each

1. Which of the following is not an application of IOT ?

(A) Smart Grid

(B) Smart AC

(C) Smart TV

(D) Capacitor

2. Assertion : Ensuring the proper functionality after a repair is very important.

Reason : It makes the customer satisfied.

(A) Both Assertion and Reason are correct and Reason is the correct explanation of Assertion

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- (B) Both Assertion and Reason are correct and Reason is not the correct explanation of Assertion
- (C) Assertion is correct but Reason is not the correct
- (D) Both Assertion and Reason is not the correct
3. Micron gauge and manifold gauge are essential tools for HVAC techniques. (True/False)
4. Which of the following tools/equipments are used to remove air and moisture from the refrigeration system ?
- (A) Vacuum pumps (B) Micron gauge
- (C) Both (A) and (B) (D) None of these
5. Which position is safe for storing refrigerant cylinder ?
6. In MS-Excel Ctrl+X is a shortcut key to data.
7. A successful Entrepreneur should be an active listener. (True/False)
8. Troubleshooting means :
- (A) Analyse and solve problem (B) Run device
- (C) Record problem (D) None of these
9. IOT stands for
10. What is smart cooling technology ?

SECTION-B

(SHORT ANSWER TYPE QUESTIONS-I)

2 each

11. What is a micron gauge ?
12. What is the effect of moisture in an AC ?
13. Enlist some commonly occurring software issues in a smart AC.
14. Write down two precautions taken while handling a refrigerant cylinder.
15. What do you mean by Internet ?

SECTION-C

(SHORT ANSWER TYPE QUESTIONS-II)

3 each

16. How are green jobs effective in saving our environment ?
17. What is the procedure to identify a fault in an AC installed at a customer's home ? <https://www.jkboseonline.com>
18. What do you mean by Dual inverter technology ?
19. How can we troubleshoot an AC using mobile app ?
20. How can you prevent HFC's from becoming flammable ?

SECTION-D

(LONG ANSWER TYPE QUESTIONS)

5 each

21. Write down five commonly occurring faults in an AC.

Or

Give detailed cleaning procedure of an Air Conditioner.

22. What is IOT ? How is this technology used to control electronic devices remotely ?

Or

Define a micro-controller. What is its importance in advanced technology ?

23. Define Active Listening. Explain why Active listening is important at workplace.

Or

Discuss five common personality disorders.