

Roll No.

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Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons) Aircraft Maintenance (2018 Batch) (Sem.-3)
ELECTRONIC FUNDAMENTALS AND DIGITAL TECHNIQUES-II
Subject Code : BSCARM-305-18
M.Code : 76603

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A**1. Write briefly :**

- a. What are storage devices?
- b. How does CPU work?
- c. What is the difference between multiplexer and demultiplexer?
- d. Give the difference between RAM and ROM.
- e. Explain the principle of LED.
- f. What is ACARS used for?
- g. How is temperature controlled in IMA?
- h. Define cockpit ventilation control in IMA.
- i. Define Cabin Intercommunication Data System.
- j. What is the full form of LRU?

SECTION-B

2. What are the main parts of microcomputer? Explain with block diagram.
3. Explain the operation of multiplexer along with its logic diagram.
4. Describe the principle of operation of an LCD.
5. Explain the working and arrangement of ECAM system.
6. Explain the general arrangement of Built in Test Equipment (BITE).

SECTION-C

7. Explain the operation of data storage systems used in microcomputer. Give their advantages and disadvantages.
8.
 - a. What are cabin network services? Explain briefly.
 - b. Explain how the data system provides interface between cockpit/cabin crew and cabin systems.
9. Write a short note on :
 - a. Landing gear extension and retraction
 - b. Integrated modular Avionics.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.