First Semester BSc Degree (Reg) Examination November 2025
KU1DSCDAS101 - FUNDAMENTALS OF IT AND COMPUTERS

2025 Admission onwards

Time : 2 hours   Maximum Marks : 70

Section A

Answer any 6 questions. Each carry 3 marks.

1. What is a binary number system?

2. What is a hexadecimal number system?

3. What is WAN?

4. What is a search engine?

5. What is web browsing?

6. What is an input device? Give two examples.

7. What is an output device? Give two examples.

8. Compare RAM and ROM.

Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain advantages and disadvantages of bus topology.

10. Explain advantages and disadvantages of ring topology.

11. Explain the features of Internet.

12. Explain the role of memory in a computer system.

13. Explain hard disk and SSD.

14. Explain the importance of cache memory.

Section C

Answer any 2 questions. Each carry 14 marks.

15. Explain cloud deployment models in detail.

16. a) Explain Internet of Things and its features.
    b) Explain applications of Artificial Intelligence in real life.

17. a) Write a detailed note on binary arithmetic and complements.
    b) Convert the following binary numbers into decimal numbers.
    i) 110000111
    ii) 110011