

End Term Examination

FIRST Semester [BCA] January 2024

Paper Code: BCA-105

SUBJECT: Fundamentals of Computers & IT

Time: 3 Hours

Maximum Marks: 60

Note: Attempt five questions in all including Q.No.1 which is compulsory.

Select one question from each unit.

Q1 Answer any five of the following: (5×4=20)

- a) Explain the block diagram of a computer and its components. Discuss their functioning in details
- b) Differentiate between Impact and Non-Impact Printers
- c) Distinguish between Loader and Linker
- d) Explain transmission modes.
- e) Describe ASCII and EBCDIC Codes
- f) Briefly describe different types of network

Unit-I

Q2 a) Define Computers and its features. (5)

b) Explain Classification of Computers with example. (5)

OR

Q3 a) Define memory. Distinguish between Primary and Secondary Memory. (5)

b) Explain input and Output devices and give three examples of each input and output device. (5)

Unit-II

Q4 a) Define the Operating System. Explain the functions of the Operating System. (5)

b) Describe the Booting Process in the Operating System. (5)

OR

Q5 a) Explain types of Operating Systems. (5)

b) Differentiate between Low-Level Languages and High-Level Languages. (5)

OR

c) Differentiate between Compiler and Interpreter. (5)

Unit-III

Q6 a) Write base values of binary, octal, decimal, and hexadecimal Number systems. (2)

b) Convert the following binary numbers to octal and hexadecimal Numbers (8)

- (i) 1110001000
 (ii) 1010100
 (iii) 11001010
 (iv) 10101001

OR

- Q7 a) Distinguish between 1's complement and 2's complement. (2)
- b) Perform binary Addition on the following: (2)
- (i) (14)+(12)
 (ii) (16)+(5)
- c) Convert Decimal to binary, octal, and hexadecimal. (6)
- (i) (457)₁₀
 (ii) (10.75)₁₀

Unit-IV

- Q8 a) Explain various Network Topologies with Advantages and Disadvantages (5)
- b) Describe the Internet and its uses. How internet is different from Intranet? (5)

OR

- Q9 a) Define Transmission Media. (4)
- b) Write short notes on the following: (Any three) (6)
- (i) IoT
 (ii) Cloud Computing
 (iii) Domain Name
 (iv) Client-Server Model
 (v) Protocols- FTP, HTTP, SMTP

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