

97661

BCA 1st Semester (Full & Re-appear)

Examination, December-2024

COMPUTER & PROGRAMMING

FUNDAMENTALS

Paper : BCA-101

Time allowed : 3 hours]

[Maximum marks : 80

Note : Attempt any five questions in all, selecting at least one question from each unit. Question No. 1 is compulsory. All questions carry equal marks.

1. (a) What is anti-virus software?
- (b) What is Problem design?
- (c) What do you mean by Flash memory?
- (d) What are the uses of Optical disks?
- (e) What do you mean by Virtual memory?
- (f) Explain modes of data transmission.
- (g) What do you mean by Linker and Loader?
- (h) Define the Forms of data transmission.

8×2=16

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97661

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Unit-I

2. (a) What is Computer? Explain the characteristics and classification of computers in detail. 8
- (b) Explain the following in detail : $2 \times 4 = 8$
- (i) Block Diagram of Computer along with its components
- (ii) Limitations of computers.
3. Explain the following in detail : $2 \times 8 = 16$
- (a) Primary and Secondary memory
- (b) Secondary storage device

Unit-II

4. (a) What is Operating system? Explain the functions of operating system in detail. 8
- (b) What is computer virus? Explain its different types in detail. 8
5. (a) Explain Multiprogramming, Multitasking, Time-sharing and real time operating system in detail. 8

97661

- (b) What is Software? Explain its types and role.
Also explain the relationship between
hardware and software. 8

Unit-III

6. (a) What is Programming Language? What are
the good features of a programming
language? Explain. 8
(b) Explain the concept of Compiler and
Interpreter in detail. 8
7. (a) Explain the concept of structured
programming. Also explain the top-down and
bottom-up programming. 8
(b) Explain the concept of Machine language and
Assembly language in detail. 8

Unit-IV

8. Explain the following in detail : 2×8=16
(a) Hardware and Software requirements for
Internet
(b) Network Topologies

(4)

97661

9. (a) What is internet? Explain the history of internet. Also explain the main applications of internet. 8

(b) What do you mean by Computer networks? Explain the types of computer network in detail. 8