

9. What is Internet ? Explain the history of Internet.  
Also explain the main applications of Internet.  
Also explain the Hardware and Software requirements for Internet.

Roll No. : .....

Total No. of Questions : 9 ] [ Total No. of Pages : 4

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**BCA 1st Semester (New) (Full & Reappear)  
Examination, March-2021**

**COMPUTER AND PROGRAMMING  
FUNDAMENTALS**

Paper-BCA-101

*Time : Three Hours ]*

*[ Maximum Marks : 80*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note** :- Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 1 is compulsory.  
All questions carry equal marks.

1. (a) Explain the limitations of Computer.
- (b) What is Anti-virus Software ?
- (c) Explain Human Being Vs Computer.

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- (d) Explain modes of Data Transmission.
- (e) What do you mean by Linker and Loader ?
- (f) What is Debugging ?
- (g) Explain RAM and ROM.
- (h) What is the use of Optical Disks ?

#### Unit-I

- 2. What is Computer ? Explain the generations of Computer. Also explain the characteristics and classification of computers in detail.
- 3. (a) What do you mean by Computer Memory? Explain the concept of cache memory and virtual memory in detail.
- (b) Explain Magnetic Tape and Magnetic Disk in detail.

#### Unit-II

- 4. What is Operating System ? Explain the functions of operating system. Also explain Multithreading, Multiprogramming, Multi-processing and Real Time Operating System in detail.

- 5. (a) What is Software ? Explain its types and role ? Also explain the relationship between Hardware and Software.
- (b) What is Computer Virus ? Explain its different types in detail.

#### Unit-III

- 6. (a) What is Programming Language ? What are the good features of a programming language ?
- (b) Explain the concept of Problem Design. Also explain the different types of errors in programming. Explain the concept of Structured Programming. Also explain the Top-down and Bottom-up Programming.
- 7. Explain the concept of Natural Language, Machine Language and Assembly Language in detail.

#### Unit-IV

- 8. Explain the following in detail :
  - (a) Computer networks and types of computer network
  - (b) Topologies