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.

97661

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.

(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, Multiprocessing 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