B.C.A. 1st Semester Examination,

February-2022

COMPUTER AND PROGRAMMING

FUNDAMENTALS

Paper - BCA-101

Time allowed : 3 hours]   *[Maximum marks : 80*

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

1.   (i)   Explain RAM and ROM.

     (ii)   What is anti-virus software ?

     (iii)   What do you mean by Virtual memory ?

     (iv)   Explain modes of data transmission.

     (v)   What do you mean by Linker and Loader ?

     (vi)   What is problem design ?

     (vii)   What do you mean by virtual memory ?

     (viii)   What is the use of Magnetic tape ?

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Unit - I

2.   What is Computer ? Explain the characteristics and classification of computers in detail. Also explain the limitations of computers.

3.   (i)   What do you mean by Computer Memory ? Explain Primary and Secondary Memory in detail.

     (ii)   Write detail note on secondary storage device in detail.

Unit - II

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

5.   (i)   What is Software ? Explain its types and role. Also explain the relationship between Hardware and Software.

     (ii)   What is Computer Virus ? Explain its different types in detail.

Unit - III

6. (i) What is Programming Language ? What are the good features of a Programming Language ?

   (ii) Explain the concept of Structured Programming. Also explain the top-down and bottom-up programming.

7. Explain the following in detail :

   (i) Compiler and Interpreter

   (ii) Machine Language and Assembly Language

Unit - IV

8. (i) What are computer networks ? Explain the types of computer network.

   (ii) Explain the Hardware and Software requirements for Internet.

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

   (ii) What do you mean by Topologies ? Explain in detail.

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