

**BCA I<sup>th</sup> Semester Full and Reappear  
Examination, November-2023  
COMPUTER AND PROGRAMMING  
FUNDAMENTALS  
Paper-BCA-101**

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

*Before answering the question, 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.**

1. (a) Define Memory.
- (b) Explain Characteristics of Computer.
- (c) What do you mean by Software?
- (d) Explain Operating System.
- (e) What do you mean by Debugging?
- (f) Define Structured Programming.
- (g) Explain MAN with its advantages.
- (h) Define Networking. 8×2=16

**Unit-I**

2. Differentiate:
  - (a) Primary Memory and Secondary Memory
  - (b) Magnetic Tape and Magnetic Disk
  - (c) Human being and Computer 16
3. (a) Draw a block diagram of Computer with its Components. 8
- (b) Define Computer with its characteristics and limitations. 8

**Unit-II**

4. (a) Explain Input and Output Devices in detail. 8
- (b) Define virus with its types in detail. 8
5. (a) Define operating system with its functions. 8
- (b) Difference between :
  - (i) Single user and Multi User Operating System
  - (ii) Multiprogramming and Multitasking 8

**Unit-III**

6. (a) Define structured programming with its advantages and disadvantages. 8
- (b) Explain :
  - (i) Debugging
  - (ii) Documentation
  - (iii) Assembler 8
7. (a) Explain Structured Programming. Also explain top-down and bottom-up programming. 8
- (b) Define Programming language with its characteristics. 8

**Unit-IV**

8. (a) What do you mean by Networking ? Also explain the network types in detail. 8
- (b) Define Network Topologies. 8
9. Define:
  - (a) Forms of Data Transmission 8
  - (b) Application of Intranet 8