

PAPER ID—14527

B.C.A. EXAMINATION, 2023

(First Semester)

COMPUTER AND PROGRAMMING
FUNDAMENTALS

Code : BCA-101

Time : 3 Hours

Maximum Marks : 80

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

Note : Attempt *Five* questions in all, selecting *one* question from each Section. Q. No. 9 is compulsory. All questions carry equal marks.

1. (a) What is Computer ? How is it different from human being ?
- (b) What is real time operating system ?
- (c) What do you understand by data communication ?
- (d) Differentiate between RAM and ROM.
- (e) What is Network Topologies ?
- (f) Differentiate between internet and intranet.
- (g) What is Debugging ?
- (h) What is Cache Memory ? 8×2=16

Section A

2. (a) Discuss important features of various generations of computers. Also give some examples of computer belonging to each generation. 8
- (b) What is the role of cache memory ? Also explain the term "Hit" and "Miss". 8

3. Explain the following : 16

- (a) Virtual Memory
- (b) Optical Disk
- (c) Magnetic Disk
- (d) Flash Memory.

Section C

4. (a) What is operating system ? Explain the various function of operating system. 8
- (b) What are the different types of computer software ? 8

5. Explain the following : 16

- (a) Multiprogramming
- (b) Multithreading
- (c) Multiprocessing
- (d) Multitasking.

Section C

6. Differentiate between assemblers, compilers and interpreters. 16

7. (a) What do you mean by computer language ? Classify different types of computer language. 8

(b) What is structure programming ? Explain the advantages and disadvantages of structure programming. 8

Section D

8. (a) Describe various internet applications. 8

(b) Explain the minimal hardware and software required for internet connection. 8

9. (a) Explain different types of transmission media. **8**
- (b) What is computer network ? What is the criteria for classification for computer network ? **8**

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