

(1UG64)

Roll No.

S.C.No.—2214101

B.C.A. EXAMINATION, 2023

(Main/Re-appear/Improvement)

(First Semester)

COMPUTER FUNDAMENTALS

22BCA101

Time : 3 Hours

Maximum Marks : 80

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

1. Explain the following :

8×2=16

- (i) CPU
- (ii) RAM
- (iii) Software
- (iv) HLL

- (v) Loader
- (vi) Compiler
- (vii) Problem Solving
- (viii) Network Types.

Unit I

- 2. Explain computer with its block diagram. Also explain the components of computer. 16
- 3. (a) Differentiate between RAM and ROM. 8
- (b) Explain Cache memory and Flash Memory. 8

Unit II

- 4. (a) What is Operating System ? Explain the functions of operating system. 8
- (b) Explain Multiprocessing and Time Sharing. 8
- 5. What is Computer Virus ? Explain the types of viruses and characteristics of viruses. 16

Unit III

6. Define the following : 4×4=16
- (i) Assembly Language
 - (ii) Machine Language
 - (iii) Compiler and Interpreter
 - (iv) Linker and Loader.
7. (a) What is Program Design ? Explain types of errors in programming. 8
- (b) Explain Algorithms and Flowcharts. 8

Unit IV

8. (a) What is Networking ? Explain the types of networks. 8
- (b) Explain different network topologies with advantages and disadvantages of each topology. 8
9. What is Internet ? Write the applications of Internet. 16