

Roll No.

Exam Code : M-21

Subject Code—52035

B. A. EXAMINATION

(Batch 2017) (Re-appear)

(First Semester)

COMPUTER SCIENCE

Paper I

Computer and Programming Fundamentals

Time : 3 Hours

Maximum Marks : 25

Note : Attempt *Five* questions in all. Q. No. 1 is compulsory. Four more questions are to be attempted selecting *one* question from each Unit.

1. Define the following :

- (a) CD-ROM
- (b) Software
- (c) Operating System

- (d) Algorithm
- (e) Object-Oriented Programming Language.

1×5=5

Unit I

2. (a) What are the five basic functions performed by a Computer System ? Explain in brief.
- (b) How many types of storage a computer system normally uses ? Justify the need for each storage type. 3,2
3. (a) What is a Cache Memory ? How is it different from a primary memory ?
- (b) Define the following terms in context of a disk storage : 2,3
 - (i) Access Time
 - (ii) Seek Time
 - (iii) Latency Time.

Unit II

4. Differentiate between an input and output device. Can a device be used as input as well as output device ? If no, explain why. If yes, give an example of such a device. 5

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5. Write short notes on the following :

- (a) Batch Processing
- (b) Multiprogramming. 5

Unit III

6. What is a Programming-planning tool ? How is it useful ? Name and briefly explain three commonly used programming planning tools. 5
7. Define Flowchart. How does it help a program in program development ? Draw a flow chart for an algorithm to add up all even numbers between 0 and 100 (both inclusive) and print the result. 5

Unit IV

8. Write an algorithm to sort a given array. 5
9. Briefly describe the following :
 - (a) Assembler
 - (b) Interpreter
 - (c) Linker. 5

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