

UNIT – IV

8. (a) What do you mean by LAN ? Explain its features and advantages. 8
- (b) Differentiate between LAN & WAN. 8
9. (a) What is Intranet ? What are its advantages ? 8
- (b) Describe various internet applications. 8
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Roll No.

97661

**BCA 1st Semester (New)
Examination – November, 2019**

COMPUTER & PROGRAMMING FUNDAMENTALS

Paper : BCA-101

Time : Three Hours]

[Maximum Marks : 80

Before answering the questions, 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*. All questions carry equal marks.

1. (a) Explain the similarities and differences of a computer system with human being ? $2 \times 8 = 16$
- (b) Explain the computer application in medical care ?
- (c) Explain scanners and its types.
- (d) What is an assembler ?
- (e) What is a machine language ? Why is it required ?

- (f) Define the terms RAM, ROM, Access Time and Access Rate.
- (g) Explain the difference between magnetic core and semi conductor memories.
- (h) Explain the limitations of a computer.

UNIT - I

- 2. What are the essential components of a computer ? Draw the schematic block diagram of a computer showing its essential components. Discuss the function of each unit. 16
- 3. (a) Explain use of computer in Marketing and education. 8
- (b) What is secondary storage ? How does it differ from a primary storage ? 8

UNIT - II

- 4. (a) What are the difference between single user and multi-user operating system ? 8
- (b) What is the difference between on-line and off-line data entry device ? 5

- (c) Define and distinguish between application software and system software. 3

- 5. (a) Briefly describe the functioning of a paper tape, punch machine and a paper tape reader. 6
- (b) How is multiprocessing different from multiprogramming ? 5
- (c) What is digitizer ? Write its advantage and disadvantage. 5

UNIT - III

- 6. (a) Give the advantages of writing a structured program. 8
- (b) What is the difference between machine and assembly -language ? 8
- 7. (a) Explain the difference between compiler and interpreter. 8
- (b) What are the usage and limitations of program documentation ? 8