

UNIT - IV

8. (a) What is a computer network ? What is the criteria for classification for computer network ?
- (b) What are the application and use of internet ? Explain.
9. (a) What is internet ? What are the hardware and software requirement for internet ?
- (b) Explain different type of transmission media.
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Roll No.

97661

BCA 1st Semester (New)

Examination – November, 2017

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. Q. No. 1 is compulsory.

Select *one* question from each Unit. All questions carry equal marks.

1. (a) What is computer ? How is different from human being ?
- (b) Differentiate between RAM and ROM.
- (c) What is real time operating system ?
- (d) What is virus ? Name few anti-virus software.

- (e) What is debugging ?
- (f) Differentiate between linker & loader.
- (g) Differentiate between internet and intranet.
- (h) What is network topologies ?

UNIT – I

2. (a) Explain the application of computer in the field of hospital and sports.
 - (b) Explain various component of a digital computer system with a block diagram.
3. Explain :
 - (i) Optical disk
 - (ii) Virtual memory
 - (iii) Magnetic disks
 - (iv) Cache memory

UNIT – II

4. (a) What is operating system ? Explain the various function of operating system.

- (b) What is the difference between hardware and software ? Explain different type of software.

5. Explain :

- (i) multiprogramming
- (ii) multitasking
- (iii) multithreading
- (iv) multiprocessing

UNIT – III

6. (a) Explain the various characteristics of a good programming language.
 - (b) Differentiate between compiler, interpreter and assembler.
7. (a) What do you mean by computer language ? Classify different type of computer language.
 - (b) What is structure programming ? Explain the advantages and disadvantages of structure programming.

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Note : Examiner will be required to set *nine* questions in all. Question No. 1 will consist of total 8 parts (short answer type questions) covering the entire syllabus and will carry 16 marks. In addition to the compulsory question there will be *four* Units i.e. Unit-I to unit-IV. Examiner will set *two* questions from each unit of the syllabus and each question compulsory. In addition to *compulsory* question, student will have to attempt *four* more questions selecting *one* question from each Unit.

1. (a) What are the limitations of human of processing ?
How these can be removed ? $8 \times 2 = 16$
- (b) What are the major secondary storage devices ?
- (c) Explain the various types of transmission media.
- (d) Differentiate between a bit, byte and a word.

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- (e) What are the advantages and disadvantages of semi-conductor memories ?
- (f) Name *four* computers belonging to each generation.
- (g) Compare desktop, Laptop and Palmtop.
- (h) What is CPU and explain how it works ?

UNIT - I

2. Explain the classification of computers according with :

16

- (a) data representation
 - (b) purpose
 - (c) use
 - (d) size, cost and speed
 - (e) generation of computers
3. (a) What are high level languages ? Why are they known as problem oriented languages ? Name some high level languages. 8
- (b) What is meant by Memory Hierarchy ? State it's important. 8

UNIT - II

4. (a) Define multiprogramming. Explain how multiprogramming ensures effective utilization of main memory and CPU. 8
- (b) What is the difference between a source program and an object program ? 8

5. (a) What is an operating system ? Why is it necessary for a computer system ? 8
- (b) List out the various functions normally performed by an operating system. 8

UNIT - III

6. (a) Explain the concept of structured programming. How does it differ from the conventional programming techniques ? 8
- (b) What is meant by programming language ? 8
7. (a) State the basic control structures which serve as building blocks for structured programming. 8
- (b) Explain the difference between compiler and Interpreter. 8

UNIT - IV

8. (a) What do you meant by computer technology ? Explain any *three* topologies ? 8
- (b) Describe client-server concept. What are its benefits ? 8
9. (a) Describe various internet applications. 8
- (b) Explain the minimal hardware and software required for internet connection. 8

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