COMPUTER & PROGRAMMING FUNDAMENTALS

Time : 3 Hours   *Maximum Marks : 80*

Note : Attempt five questions in all, selecting one question each from any four units. The fifth question may be attempted from any unit.

1. (a) Why Randomi Access memory is named so?

   (b) Name the tools used to represent the logic of the program.

   (c) Write two applications of computers in education.

   (d) Define iCompiler.

   (e) Name the types of software.

   (f) Define Network topology.

   (g) Write two differences of Application software and System software.

   (h) Define Multiuseri operating system.

Unit-II

2. (a) Draw the block diagram of Computer showing essential components. Discuss the functions of each unit.

   (b) Explain the use of computer in Business.

3. (a) What is Secondary storage? How does it differ from Primary storage?

   (b) Write short notes on the following :

   i) Magnetic disk.

   ii) Flash memory.

   iii) Read Only Memory (ROM).

Unit-II

4. (a) What is an Operating system? What are the various functions normally performed by an operating system?

   (b) How is Multi processing different from Multi programming?

5. (a) Explain the various pointing devices.

   (b) Define Virus. Describe the characteristics of viruses.

Unit-III

6. a) What do you mean by Debugging?

   b) Explain various types of Errors in program.

   c) What are the advantages of Documentation?

7. a) Write an algorithm to findi the HCF and LCM of two given nos.

b) Write short note on Flow charting.

Unit-IV

8. a) Describe the Binary search algorithm. What are the advantages of binary search method?

   b) What is the need for operations like sorting and searching?

9. a) Discuss various types of Computer networks.

   b) What are the benefits provided by computer networks to both, organization and individual users?

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