

M-72/2110

10839/M

Total No. of sheet used : 01 Total No. of Questions: 09
Subject : Introduction to Information Technology
Class : M.Sc. (IT) 1st Semester
Paper : MS-111
Title of Paper : Introduction to Information Technology
Time Allowed : 3 Hours
Maximum Marks: 70

Note: Candidates are required to attempt five questions in all selecting at least two questions each from sections A and B. Section C is compulsory.

SECTION A

- Q1. Define a computer. What are the characteristics of a computer? What are limitations of a computer? How computers can be classified on the basis of generation? 10.5
- Q2. What do you mean by binary subtraction? What are various methods of performing binary subtraction? Illustrate each with the help of suitable examples. 10.5
- Q3. Elaborate the working of compact disk in detail. 10.5
- Q4. What do you mean by optical scanning devices? Explain any two such devices. 10.5

SECTION B

- Q5. Define an operating system? What are various types of operating systems? Discuss the working of multiprogramming operating system in detail. 10.5
- Q6. Discuss various network topologies giving their relative merits and demerits. 10.5
- Q7. Briefly discuss the role of information technology in the following areas
- a) Banking 3.5
 - b) Insurance 3.5
 - c) Education 3.5
- Q8. What do you understand by E-commerce? Discuss Various types of e-commerce in detail. 10.5

SECTION C

- Q9. a) What is the role of ALU? 04
- b) Convert binary number (111010010) into octal, decimal and hexadecimal numbers. 04
- c) What do you mean by impact printers? 04
- d) Differentiate between RAM and ROM. 04
- e) What is FTP? How it is different from TELNET? 04
- f) Differentiate between application software and system software. 04
- g) What do you mean by multimedia? What are its components? 04