

207

Subject Code—7246-X

P.G.D.C.A. EXAMINATION

(First Semester)

(Re-appear)

MS-01

INTRODUCTION TO IT

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. (a) Describe the terms 'Data' and 'Information' with the help of suitable examples. 3
- (b) What are the different characteristics of Information ? Explain. 7
- (c) What do you mean by Data Processing ? Why is it required ? Also explain different types of Data Processing. 10

2. (a) Draw a block diagram to illustrate the basic organization of a computer system and explain the function of each unit. 8
- (b) Write the names of the five input devices and five output devices. Discuss any one input device and one output device in detail. 8
- (c) How many memory locations are there in a 4K*8 and 64K*16 memory system ? 4
3. (a) Differentiate between system software and application software. 8
- (b) Discuss the relative advantages and disadvantages of machine, assembly and high level languages. 12
4. (a) What is an Operating System ? Explain the various functions of an Operating System. 10
- (b) Write a short note on UNIX operating system. 10

5. (a) Why do we need computer networks ? Differentiate between LAN and WAN ? 8
- (b) Explain the following : 12
- (i) Network Protocols
- (ii) WWW
- (iii) HTML
- (iv) Elements of Java.
6. (a) What is the need of security in computer systems ? What are the different types of security ? 7
- (b) Differentiate between preventive and corrective maintenance. 4
- (c) Define the following terms : 9
- (i) Virus
- (ii) Trojan Horse
- (iii) Worms.
7. Discuss, in detail, the various applications of Information Technology in the field of Science, Business, Education, Industry, Weather Forecasting, Medical Entertainment and Multilingual Applications. 20

8. What is the need of Object Oriented Programming ? Explain the concept of Inheritance, Polymorphism, Function Overloading and Operator Overloading with the help of suitable examples. 20