

FUNDAMENTALS OF IT-A

Time Allowed : Three Hours

Maximum Marks : 65

Note : The candidates are required to attempt *one* question each from Section A, B, C and D carrying 14 marks each and the entire Section E consisting of 7 short answer type questions carrying 2 marks each.

Section - A

1. (a) Compare the five generations of computers on the basis of the software technologies used. Explain the main functions performed by the system software of a computer system. 8
(b) Differentiate between System Software and Application Software with one example for each. 6
2. (a) With the help of a block diagram, explain the basic organization of computer system. 8
(b) With suitable example, explain about Number Systems. 6

Section - B

3. (a) What is multiprogramming? What are its advantages? How is it implemented? 8
(b) What are the secondary storage devices? How do they store data? Why optical media is

4. (a) better than magnetic media in secondary storage ? 6
 (a) What are the computer languages ? What are their characteristics ? 8
 (b) Define memory. What are the types of memories used in a computer system ? What are the their advantages and disadvantages ? 6
- Section - C**
5. (a) What is E-mail ? What are the parts of E-mail ? What are the features in writing an e-mail ? 10
 (b) Compare ring and bus topologies. 4
6. (a) What are the network communication devices ? Explain the role of all the devices. 10
- Section - D**
7. Explain the following concepts :-
 (i) Kiosks (ii) E-commerce 14
 (iii) Entertainment via computers. 14
8. Discuss various applications of computers. 14
- Section - E**
9. Explain a brief note on the following :-
 (a) Differentiate between the hardware and software of the computer. 2
 (b) State the different Input and Output devices. 2
 (c) Discuss the various types of computers. Discuss the importance of Information Technology. 2
 (d) State the uses of the personal computer. 2
 (e) Why there is a need for computer knowlege ? What are the Application of the computer ? 2
 (f) What is the difference between a compute and calculator? 2
 (g) What is Internet ? Wrtie down the physical and logical structure of Internet. 2