

COMPUTER SCIENCE

Paper : A02 Computer Fundamentals & C Programming

Time Allowed : 3 Hours

Maximum Marks : 65

Note : Attempt five questions in all, selecting one question each from Sections A, B, C and D. Section E is compulsory.

SECTION-A

1. (a) What is Computer ? Discuss various applications of Computers. 7
(b) Define Software. Draw the difference between System Software and Application Software. 6

2. (a) With help of diagrams, explain the working of compiler, assembler and interpreter. 7
(b) What do you mean by E-commerce ? Describe various benefits of E-commerce. 6

SECTION-B

3. (a) What is Operating system ? Explain functions of Operating System. 7,6
(b) What do you mean by DOS ? Explain any five commands of DOS. 6
4. (a) Describe the working of client server model. 7
(b) What is Computer Network ? Compare and contrast LAN and WAN. 6

SECTION-C

5. What do you mean by Problem Solving ? Describe the difference between Decision table and Flow charts. Draw a flow chart to add three numbers. 13
6. What is Loop ? Elaborate different types of loops in C with proper syntax. 13

SECTION-D

7. (a) How functions can be declared and defined in C ? 7
(b) Discuss the difference between call by value and call by reference. 6
8. (a) What is Array ? Explain different types of arrays. 7
(b) Describe the use of in-built string functions. 6

SECTION-E

(Compulsory Questions)

9. Write short notes on following with help of example/diagram if needed :
- (a) goto statement 3
 - (b) Difference between Structure and union 2
 - (c) Nested loop 2
 - (d) Pseudo code 2
 - (e) Remote sensing 2
 - (f) Linux 2