

AE-1217

B.Sc. (Part - I)
Term End Examination, 2016-17

COMPUTER SCIENCE

Paper - II

Computer Software

Time : Three Hours] [*Maximum Marks* : 50

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. (a) Answer the following questions :
 - (i) What do you understand by testing of Programs ?
 - (ii) Write rules for arithmetic expression and hierarchy of operation.
- (b) Define the following terms :
 - (i) Constants
 - (ii) Keywords
 - (iii) Tokens
 - (iv) Variables

(2)

Unit-II

2. (a) Explain Web Security Firewall and its types.
(b) Explain Mail Merge in MS-Word documents.

OR

- (a) Write a short note on latest MS-Office packages and its advantages.
(b) Explain the applications of Internet.

Unit-III

3. (a) What is the range of various data types in 'C' language ? Discuss the primary data types in detail.
(b) What is Function ? Why is it important in 'C' language ? Explain with the help of a suitable example.

OR

- (a) Write and explain the action of WHILE Statement. Develop a program in 'C' language to compute the average of every third integer number lying between 1 and 100 include appropriate documentation.
(b) What is the difference between pass by value and pass by reference.

(3)

Unit-IV

4. (a) How are value initialized in one dimensional array ? Should the entire array be initialized in the definition ?
- (b) Explain with examples the relationship of one dimensional array with pointers.

OR

- (a) Define an Array. Write a program for 2-D Matrix multiplication using arrays.
- (b) Define Pointers and discuss the advantages and disadvantages of pointers.

Unit-V

5. (a) Write the different built-in (library) functions provided by 'C' language for handling I/O operations on files.
- (b) Define a structure for a student having name, roll number and marks obtained in six subjects. Write a program to input the details for 20 students and print the details of the students who have scored more than 70% marks overall.

OR

(4)

- (a) Explain in detail most commonly used Dynamic Memory Allocation functions.
 - (b) Explain file handling functions.
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