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PK-458

M.Sc. II Semester Mathematics
(Reg./Pvt./ATKT) Examination June 2018
PROGRAMMING IN "C"
(THEORY AND PRACTICAL)

Paper - V (iii)

Time Allowed : Three Hours]   *[Maximum Marks : 60*

Note : Attempt all questions as directed.

Section - A
Objective Type Questions

Q.1.   Choose the correct answer: 5×1=5

   i)   _____ function is used to display the output on the screen.

   (a)   Print( )   (b)   Printf( )

   (c)   Put( )   (d)   None of these

   ii)   How many bytes of memory occupies by the float variable?

   (a)   4 byte   (b)   2 byte

   (c)   8 byte   (d)   None of these

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   iii)   Conditional operator is _____

   (a)   ? :   (b)   * /

   (c)   =   (d)   • *

   iv)   Collection of similar data types is _____

   (a)   Structure   (b)   Array

   (c)   Union   (d)   Loops

   v)   _____ is the process of arranging the elements of an array in order.

   (a)   Sorting   (b)   Searching

   (c)   Compiling   (d)   None of these

Section-B
Short Answer Type Questions
                                                5 × 4 = 20

Q.2.   Explain the structure of C program with suitable example.

OR

Differentiate with Compiler and Interpreter.

Q.3.   Explain the rules of declaration of variable in a C program.

OR

Discuss the utility of input and output statements.

(3)

Q.4. What do you mean by if-else statement? Explain with suitable example.

OR

WAP to find string is palindrome or not.

Q.5. Explain Goto statement with suitable example.

OR

Describe the use of for-loop with suitable example.

Q.6. Differentiate between structure and union.

OR

Program for reversing an array.

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Section-C

Long Answer Type Questions

$5 \times 7 = 35$

Q.7. What do you mean by programming languages? Explain the various types of programming languages with their merits and demerits.

OR

What is algorithm? Write its characteristics. And also write algorithm to find simple Interest.

Q.8. Describe the various data types used in C language.

OR

(4)

Explain the following:

a) Constants

b) Variables

c) Keywords

Q.9. Discuss the use of Logical, Increment and Decrement operators with suitable examples of each.

OR

Describe if-else statement. And also write a program to use if-else statement.

Q.10. Discuss the following with example. (Any two):

a) Switch statement

b) Break statement

c) Continue statement

Q.11. What do you mean by array? Explain 2D and 3D array.

OR

Write a program to insert 10 elements in array and sort them in ascending order.