PA-994

[5902]-11

F.Y.B.Sc. (Computer Science)
CS-101: PROBLEM SOLVING USING COMPUTER & 'C' PROGRAMMING
(New CBCS 2019 Pattern) (Semester-I)

Time : 2 Hours] *[Max. Marks : 35*

Instructions to the candidates:

1) *Figures to the right indicate full marks.*
2) *All questions are compulsory.*

Q1) Attempt any 8 of the following. **[8×1=8]**

a) What is description for syntax error?

b) Describe the difference between = and = = symbols in C programming?

c) What is the process to create increment and decrement statement in C?

d) What are reserved words with a programming language?

e) Is 'C' language high level language? True/False-Justify.

f) What are the valid places to have keyword "Break"?

g) What is Algorithm?

h) What is variable?

i) What are input and output functions?

j) What are applications of Arrary?

Q2) Attempt any four of the following. **[4×2=8]**

a) Explain any two datatypes.

b) What is nested loop?

c) List the different Backslash character constants.

d) What is a compiler?

e) Define Flowchart?

Q3) Attempt any 2 of the following. **[2×4=8]**

    a)   Explain switch - case statement with suitable example.

    b)   Write a 'C' program to accept 'n' numbers and print the even numbers.

    c)   Write an algorithm and draw a flowchart for 'finding of area of traingle'.

Q4) Attempt any Two of the following. **[2×4=8]**

    a)   What is an identifier? Give the rules of identifier.

    b)   Differentiate between if-else and while statement.

    c)   Find the output of the following program and Justify.

```
main () {
        int x = 100;
        print f (" \n x = % d," 10 + x++);
        print f ("\n x = % d," 10 + ++x);
        }
```

Q5) Attempt any 1 of the following. **[1×3=3]**

    a)   Explain Arrays and its types with example.

    b)   Write 'C' program to accept a number and check whether it is an Armstrong number.