

Roll No. Y18271031.....

C

CBA-253-T
M.C. A. First Semester
(End Semester) Examination,
Dec. , 2018

COMPUTER SCIENCE AND
APPLICATIONS

Paper - CSA-CC-123

(Programming and Problem Solving
using C)

Time : Three Hours]

[Maximum Marks : 60

Note : All sections are compulsory.

SECTION-A
(Objective Type Questions)

[P. T. O.

Note : Choose the correct option.

$$10 \times 1 = 10$$

1. Value of X = size of (11.73) % size of (21) ; is :

4 1/2

- (a) 4
- (b) 2
- (c) 1
- ☒ (d) None of above

2. If X=3, y=7, then value of P = (++x) && (y++) ? 10 : 100 :

4 8

- (a) P = 100, x=3, y=7
- (b) P = 10, x=4, y=8
- (c) P = 100, x=4, y=9
- ☒ (d) None of above

x < 3
y < 7

3. An example of menu driven is :

- (a) If-else
- ☒ (b) Switch
- (c) For
- (d) Do-while

4. Infinite loop is :

- (a) Useless
- ☒ (b) Used to terminate program
- (c) Not possible
- (d) None of the above

5. Which one is valid :

☒ (a)

Static

Scope : Local

Life : Local within program

- (b) % will work for
Float data and display data
- (c) Logical and bitwise are same
- (d) Default value of static in t x is zero

6. If int A [10] = { -1, -2, -3, 0, 1, 2, 7, 6 }, the value of size of (A) is :

- ☒ (a) 8
- (b) 10

(c) 20

(d) None of the above

7. Address is always :

(a) Signed

☒ (b) Unsigned

(c) Both (a) and (b)

(d) None of the above

8. Which one is valid :

(a) ** p

(b) * (Address)

(c) *** p

☒ (d) All of above

9. # define is :

(a) Structure

(b) Union

☒ (c) Pre-processor

(n) None of the above

10. Strr () is :

(a) String comparison

(b) String copy

☒ (c) String reverse

(d) None of the above

SECTION-B

(Short Answer Type Questions)

Note : Attempt any **four** questions.

4×5=20

1. Explain various operators used in C program.
2. Draw flow chart of "for loop" and "switch statement".
3. Write program in C to calculate nCr , where n and r will be input from user.
4. Write program in C to find product of two matrices each of 5×5 size.
5. Explain the concept of pointers to pointer using program.
6. Write notes on the following :
 - (a) Command line argument

(b) Structure

SECTION - C
(Long Answer Type Questions)

Note : Attempt any **three** questions. $3 \times 10 = 30$

➤ 1. Explain machine level language, assembly language and high level language with examples.

2. Write program in C to find S

$$= \frac{1}{L^1} - \frac{1}{L^2} + \frac{1}{L^3} - \frac{1}{L^4} \dots \dots \dots \frac{1}{L^n}.$$

➤ 3. Explain storage classes with the help of programming example.

➤ 4. Explain pointer concepts with example.

5. Explain array of structure using example.

