(20518) Roll No. .....

BCA-II Sem.

18006

B. C. A. Examination, May 2018

C Programming

(BCA-202)

(New)

Time : Three Hours] *[Maximum Marks : 75*

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. 3×5=15

1. Differentiate between string and character array. 3

2. What is generic pointer ? How can it be converted to a specific type of pointer ? 3

3. What is the output ? 3

```
#include < stdio.h>
  int func (int);
  main( )
{
  int a = 2;
  printf ("%", func(a));
  return 0;
}
int func(int a)
{
  if (a > 1)
  return func (- - a) + 10;
  else
  return 0;
}
```

4. Explain the difference between malloc ( ) and calloc( ) function. 3

5. Explain the importance of the # define preprocessor directive. 3

Section-B

(Short Answer Questions)

Attempt any *two* questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words.

7½×2=15

6. Write a program to sort an array. 7½

7. Write a C program to find the reverse of each word of a string (how are you : output : woh era uoy). 7½

8. Differentiate between rewind( ) and fseek( ). Can fseek( ) work as an alternative to rewind( ). If yes, why ? 7½

Section-C

(Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

9. (a) Why are arrays needed ? Write a program to calculate the number of duplicate entries in an array. 7½

   (b) With the help of an example, explain how pointers can be used to dynamically allocate space for two-dimensional array. 7½

10. (a) What do you understand by EOF ? Write a program to read a text file, convert all the lower case characters into upper case. 7½

    (b) What is string ? Explain any five library functions of string. 7½

11. (a) Create a Structure BANK to maintain the records of a bank customers. It has the following fields CUST-ID, NAME, ACC-TYPE, BALANCE.

    (i) A new record is added when a customer open an account

    (ii) A existing record is updated when user deposits or withdraw an amount.

    Create Menu-Driven Program. 7½

    (b) What do you understand by pointers ? Write a program to count the number of characters, words and lines in the text using pointer. 7½

12. (a) What is macro ? Explain the difference between object macro and function macro with example. 5

    (b) Write a program to swap two numbers using pointer with structure. 10

13. (a) Explain the use of bitwise operators in programming with suitable example. 7½

    (b) Write a program that reads a binary file that stores employees records and prints on the screen the number of records that are stored in the file. 7½