C 24770

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Name.....

Reg. No.....

SECOND SEMESTER B.Sc. DEGREE EXAMINATION, MAY 2017

(CUCBCSS—UG)

Complementary Course details and a details of the list

BCS 2C 02-PROGRAMMING IN C

Time : Three Hours

Maximum : 64 Marks

Part A

Answer **all** the questions. Each question carries 1 mark.

1. What are keywords?

2. a=a/n+1. The equivalent statement with shorthand operator is ----

3. What will be the output of the following program

main()

{

int a,b;

a=10; b=20;

```
prinf("%d ", a,b);
```

}

4. Which is the arithmetic operator with lowest precedence?

5. Elements of the array are accessed by _____

6. What is the result for the following declaration?

int $array[] = \{1, 2, 3, 4, 5\};$

printf("%d", &array[4] - &array[0]);

7. If there is any error while opening a file, fopen will return —

Turn over

```
8. What is the result of the following code?
```

```
{
```

main()

```
int a[]= {1,2,9,8,6,3,5,7,8,9};
```

int *p=a+1;

int *q = a + 6;

printf("\n%d", q-p);

9. Array passed as an argument to a function is interpreted as -----

 $(9 \times 1 = 9 \text{ marks})$

Part B

Answer all the questions. Each question carries 2 marks.

- 10. What is the purpose of a type declaration?
- 11. Describe two different forms of if-else statement. How do they differ ?
- 12. Write a program to print the first 10 natural numbers.
- 13. How values of an array is passed to a function?
- 14. Differentiate between structure and union.

 $(5 \times 2 = 10 \text{ marks})$

Part C

Answer any five questions. Each question carries 5 marks.

15. What is a data type ? Explain the fundamental data types available in C with suitable examples.

16. What is meant by function prototype? Write a function program to find the factorial of a number.

17. Define storage class. Explain various storage classes in C with examples.

18. Write a program to arrange the numbers of an array in ascending order.

19. Write a program to find the sum of digits of a number into a single digit.

지수가가 오늘 것을 만들어 있는 것 않아? 가지 않을까? 이것 사람들이 있는 것을 하는 것 같아.

- 21. Explain the various modes of fopen().
- 22. Write a program to find the product of two matrices.

 $(5 \times 5 = 25 \text{ marks})$

Part D

Answer any **two** questions. Each question carries 10 marks.

- 23. What is a string ? Explain various string handling functions in C with suitable examples.
- 24. (a) Write a program to read a line of text and output the number of words and characters?
 - (b) Write a program to find prime numbers between 50 and 500?
- 25. Write a program to read a list of words from a file, sort the words in alphabetical order and display them one word per line. Also give the total number of words in the list ?

 $(2 \times 10 = 20 \text{ marks})$