(20519)

Roll No.

Total Questions: 13]

[ Printed Pages: 4

# NP-3591

B.Sc. (Computer Science) IInd Semester Examination, May-2019

### PROGRAMMING IN C

(BCS-204)

Time: 3 Hrs. ]

[ M.M.: 75

Note: Attempt questions from all Sections as per instructions.

#### Section-A

## (Very Short Answer Type Questions)

Note: Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

What are the different data types in C? Explain any four with an example.

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Write a program to print all natural numbers divisible by 5 ranging from 1 to 100.

Define a pointer and give the meaning of declaration:

int\*ptr;

with the help of an example.

Write the output of the following program:

main

int i=10; intj=20;
if((i\*j)/(i+j)>=6)
printf("hello world");
else
printf("world hello");

3. What is a file in C? Write the commands to open and close a file.

#### Section-B

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### (Short Answer Type Questions)

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

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- 6. Define structures and write a program to make a 11 structure for book entity with fields : book name, book price, book author, book publisher, year of print and ISBN.
- 7. Write a program to check that an integer string is a palindrome or not.
- Explain the different between the for and while loop with an example.

#### Section-C

#### (Long Answer Type Questions)

Note: Attempt any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.



Explain the concept of arrary of pointers with example. https://www.ccsustudy.com



What are the string operations in C? Explain the following string operations using examples:

- strcat
- strlen
- strcmp
- (iv) strcpy



What are the operators in C? State four arithmetic operators and four logical operators.



Write a program in C to multiple two matrices of nxn size each.

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What are formal parameters in functions?

Write a program to find the biggest number among 3 numbers given by user using if else statements.

- Declare one-dimensional, 5 elements integer 12. (a) arrary 'List' and initialize all values.
  - What are the modes in which a file can be opened? Explain any two with example.
- What is a Keyword? State two keywords of 13. (a)
  - Write the output of the following program given below:

```
Main
int x=10;
int *p=&x;
printf("Value of variable x is: %d", x);
printf("\n Value of variable x is : %d", *p);
printf("\nAddress of variable x is : %p", &x);
printf("\nAddress of variable x is : %p", p);
printf("\nAddress of pointer p is: %p", &p);
```

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