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(20517) Roll No.

BCA-II Sem.

18006

B.C.A. Examination, May 2017

C Programming

(BCA-202)

(New)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from **all** sections as per instructions.

Section-A

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

3x5=15

1. Explain the difference between array and structure. 3
2. Differentiate between *(arr+i) and (arr+i). 3

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3. Write a short note on nested structures. 3
4. Explain command line arguments in C using example. 3
5. How pointers are implemented with function with example. 3

Section-B

Note : Attempt any two questions:

6. Write the output: 7½

```
#include <stdio. h>
main ()
{
    int arr [ ] = {1, 2, 3, 4, 5};
    int i=1, j=2;
    Printf ("% d" *(arr+1+i));
    printf ("% d" *(arr+*(arr+1)));
    printf ("% d", *(arr+j));
    printf ("% d", *(arr+i)+*(arr+j));
}
```

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- 7. Write a program to interchange second element with last element of an array. 7½
- 8. Write short note on: 7½
 - (a) fopen ()
 - (b) fclose ()
 - (c) fgetc ()
 - (d) fprintf ()

Section-C

Note : Attempt any **three** questions.

- 9. (a) What is string? Write a program to find concatenate of two string using pointers without Library function. 7½+7½=15
- (b) Write a program using pointers to search a value from an array.
- 10. (a) Write a short note on conditional directives. 5+10=15
- (b) In a class there are 5 students. Each student is supposed to appear in 3 tests. Write a program using 2-D array to print.

- (i) the marks obtained by each student in different subjects.
- (ii) total marks and average obtained by each student.
- 11. (a) Explain different types of files in file handling and what are different modes to open a file? 10+5=15
- (b) Difference between structure and union. Explain how members of a union are accessed using a program code.
- 12. (a) What is file? Write C program to copy the contents of one file into another file. 7½+7½=15
- (b) Explain different bitwise shift operators use in C Programming.
- 13. (a) What is pointer? Explain pointer to pointer with example? Can we subtract two pointer variables. 7½+7½=15
- (b) Write a program to explain the use of structure with function.