



K18U 0528

Reg. No. : .....

Name : .....

II Semester B.Sc. Degree (C.B.C.S.S. – Reg./Supple./Imp.) Examination,  
May 2018

**CORE COURSE IN COMPUTER SCIENCE**  
**2B02 CSC : Advanced Programming in 'C'**  
**(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. One word answer : (8x.5=4)

- a) C was developed by
- b) What is the only function all C programs must contain ?
- c) What punctuation is used to signal the beginning and end of code blocks ?
- d) What is the output of this C code ?

```
#include <stdio.h>
void main()
{
    int x = 0;
    int *ptr = &5;
    printf("%p\n", ptr);
}
```

- e) Which are themselves a collection of different data types ?
- f) Which cannot be a structure member ?

P.T.O.



g) Size of a union is determined by size of the

h) What would be the size of the following union declaration ?

```
#include <stdio.h>
```

```
union uTemp
```

```
{
```

```
    double a;
```

```
    int b[10];
```

```
    char c;
```

```
}u;
```

(Assuming size of double = 8, size of int = 4, size of char = 1)

### SECTION – B

Write short notes on **any seven** of the following questions : **(7×2=14)**

2. What is Strcpy ?
3. What is meant by library files ?
4. What is meant by function ? Give an example for function declaration.
5. What is Recursion in function ?
6. How is pointer declared and initialized with example ?
7. How can variable accessed through pointer ?
8. Differentiate between structure and union.
9. What is calloc and malloc ?
10. What function used for random access to files ?
11. Name types of C pre-processor directives.



SECTION – C

Answer **any four** of the following questions : (4×3=12)

- 12. Write a C pgm to show recursion in function.
- 13. Discuss user defined types.
- 14. What is Macro ?
- 15. What is meant by storage classes ?
- 16. Discuss about union, definition and declaration of union with examples.
- 17. What are pointer notations ?

SECTION – D

Answer **any two** of the following questions : (2×5=10)

- 18. Explain string handling function.
  - 19. Explain about dynamic memory allocation.
  - 20. Explain types of C Pre-processor directives.
  - 21. Write a program to display student record such as name, rollno, dept, CGPa with help of structure data type.
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