

Seat Number

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Nov-2015



कणगा - 014

COMPUTER SCIENCE PAPER - II : CS - 112
C Programming - I
(124102)

P. Pages : 4.

Time : Two Hours

Max. Marks : 60

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Write a C language program as a example whenever necessary.
5. Figures to the right indicate full marks.
6. All questions are compulsory.

1. A) Attempt any six.

6

a) Binary equivalent of 762 is

- | | |
|-----------------|----------------|
| i) 1111111010 | ii) 1011111010 |
| iii) 0111111010 | iv) 1011111110 |

b) First character in any variable name must always be an a

- | | |
|---------------|-----------------------|
| i) Number | ii) Special character |
| iii) Alphabet | iv) Alphanumeric |

c) What will be the output of the following program

```
main( )  
{  
    int x = 10, y = 5, p, q ;  
    p = x > 9 ;  
    q = x > 3 && y != 3 ;  
    printf("p=%d q=%d", p, q) ;  
}
```

- | | |
|------------------|-----------------|
| i) p = 1 q = 1 | ii) p = 1 q = 0 |
| iii) p = 0 q = 1 | iv) Error |

- b) Explain the application of C language.
- c) State the differences between string constant and character constant.
- d) List and explain any one data type in C.
- e) Explain bitwise left shift operator ?
- f) Explain with example ++i and i++.
- g) Write a short note on Nested Macros.
- h) Differentiate between while and do....while loop.
- i) Explain goto statement.

3. Attempt any four.

12

- a) What are the features of C language ? Explain.
- b) Write syntax and purpose of following functions :
 - i) printf
 - ii) getchar
 - iii) scanf
- c) Explain library function abs(), pow(), sqrt() with suitable example.
- d) Write a program to check given number is even or odd.
- e) Explain the use of continue statement.
- f) Distinguish between 1-D array and multi-dimensional arrays.

4. Attempt any three.

12

- a) Write a program to find maximum and minimum element from an array.
- b) Give features of pre-processor.
- c) Write a short note on precedence and order of evaluation.
- d) Discuss different Escape sequence characters.

e) Explain for loop with suitable example.

5. Attempt any two.

12

- a) Write a C program to receive n numbers in an 1-D array and display addition of all even numbers and multiplication of all odd numbers.
- b) Explain the followings.
 - i) Macros with arguments.
 - ii) Nested macros.
- c) Write a C program to read single digit number and convert it to Roman.
