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No.

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April 2014

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COMPUTER SCIENCE PAPER - II : UG-CS - 112

'C' Programming - I

(11246)

P. Pages : 3

Time : Two Hours

Max. Marks : 40

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Answersheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figure to the right indicate full marks.

1. Attempt **any eight**.

8

- i) State the features of C.
- ii) What is maximum length of float variable ?
a) 8 b) 16 c) 32 d) 64
- iii) What is output of the expression : $11\%5$?
- iv) What is purpose of # include <filename.h> in a C program.
- v) Write syntax of if statement.
- vi) How to initialise an array ?
- vii) A header file contains :
a) Compiler commands. b) Library functions.
c) Operators for file d) None of these.
- viii) What is the main emphasis of structured programming languages ?
- ix) What is output of following program
main ()
{
 int x = 10, y = 5, z = 4;
 printf ("%d", (x > y & 4 y > z || z < x) ? 1:0);
}
- x) State the advantages of array.

2. Attempt any four.

8

- a) "The running variable of while-loop must be get updated in the loop"
Comment.
- b) List the different types of operators provided by C.
- c) Define keyword and identifier.
- d) How to compile a C language program ?

- e) Find output of following program segment :

```
Char P = 'E';  
int j;  
switch (p)  
{  
    case 'a' : j = 300;  
               break;  
    case 'b' : j = 100;  
               break;  
    case 'c' : j = 500;  
               break;  
    case 'e' : j = 1000;  
               break;  
    default : j=20*20;  
               break;  
}  
printf ("j = % d", j);
```

- f) Find output of following program segment :

```
int x[ ] {1, 2, 3, 4, 5};  
int i = 0, sum = 0  
do  
{  
    sum=sum + x[i];  
    i = i+2;  
}  
while (i < 5);  
printf ("sum = % d", sum);
```

3. Attempt any two.

8

- a) Consider the following declaration
int x = 15, y = 11;
Perform following bitwise operations :
i) x & y ii) x | y.

- b) Write a C language program to check whether given number is prime or not.
- c) Discuss the following preprocessor statements :
- i) # define
 - ii) # include.

4. a) Attempt **any two**.

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- i) Write in short about if-else ladder.
- ii) Write a C-language program to find sum of diagonal elements of 3x3 matrix.
- iii) What do you mean by type conversion in C ? Explain.

b) What is use of main () function in C ?

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5. Attempt **any one**.

8

- a) i) Discuss printf () statement in brief.
- ii) Write a C language program to read an array with positive and negative integers and print only positive integers using continue statement.

OR

- b) i) Write a C-language program that checks whether inputted character is alphabet, digit or a special character.
- ii) Describe the uses of following statements :
- i) break
 - ii) go to.
