# QUESTION 2013

### Group-A

(Multiple Choice Type Questions)

1. Choose the correct	alternatives for the to	llowing:	
	ng is a valid typecast?		
a) To (int, x)	b) X (int)	√c) (int) X	d) (integer)
ii) How many times is	a do while loop guarai	nteed to loop?	
a) 0	√b) 1	c) infinite	d) variable
iii) Which of the follow	ing operators represer	nt logical AND?	
a) &	b) AND	√c) &&	<b>d)</b> D D
iv) Which of the following	ing characters ends all	strings?	
a) ¹\n′	p) Jt.	c) <i>"p</i> .	√d) <b>1</b> 0°
v) Which of the following	ng is a complete function	nn?	
<ul><li>a) int fn (int a) {ret</li><li>c) int fn (int a) {ret</li></ul>	retum a; }	> b) int fn ();	
		d) int fn (int a) {return	a};
vi) Which of the following	ng adds one string to the	he end of another?	
a) append()	▼ b) strcat()	c) strconcat()	d) stradd()
vii) Which is not the cor	rrect variable type in ca		
a) int	b) float	c) char	√d) real
viii) What is the index n	umber of the last elem	ent of an array with 50 elements	
	<i>D</i> ) 43	c) 0	s? d) 1
ix) Union item {char nan	ne; int code: float price		
HOW HILLEN SPACE IS	occupied by this union	,, u, n2	
a) 1 byte	b) 2 bytes	✓c) 4 bytes	d) 7 bytes
x) Conditional operator is	s a oper	ator	
a) unary	b) binary	✓c) ternary	d) mester

# Group - B (Short Auswer Type Questions)

2. What do you mean by local variable and global variable? Discuss various available storage classes in C.

1<sup>st</sup> Part: See Topic: FUNCTIONS, Short Answer Type Question No. 18. 2<sup>nd</sup> Part: See Topic: FUNCTIONS, Long Answer Type Question No. 4.

3. Write a program to print the sum of the following series.

S=1^2+2^2+3^2+ .....+ n^2.

See Topic: FLOW OF CONTROL, Short Answer Type Question No. 10.

4. Write down the difference between structure and union. Write a function to print the sum of the even numbers from 1 to n.

Answer.

1st Part: See Topic: STRUCTURES AND UNIONS, Long Answer Type Question No. 1(c).

2rd Part: See Topic: FUNCTIONS, Short Answer Type Question No. 10.

5. Discuss call by value and call by reference with example.

See Topic: POINTERS, Long Answer Type Question No. 1.

6. What is header file in C? What are the differences between inbuilt and user defined function?
What is pre-processor directive?

See Topic: C FUNDAMENTAL, Short Answer Type Question No. 6.

#### Group - C

#### (Long Answer Type Questions)

- 7. a) What are the basic differences between while, do while and for loop?
- b) Write a C program to print natural numbers from 1 to n.
- c) Write a C program to find factorial of a given integer.
- a) & b) See Topic: FLOW OF CONTROL, Long Answer Type Question No. 19.
- c) See Topic: FUNCTIONS, Long Answer Type Question No. 5.
- 8. a) Write a C program to print integers from 1 to n omitting those integers which are divisible by 10.
- b) Write a C program to find the square of the sum of the digital of any given positive integer.

See Topic: FLOW OF CONTROL, Long Answer Type Question No. 20.

9. a) Is printf a function? If yes, then what does it return?

b) Determine how much money is in a piggy bank that contains several 50, 25, 20, 20, 10 and 5 paise coins. Use the following values to test the program; five 50 paise, three 25 paise, two 20 paise, one 10 paise and fifteen 5 paise.

c) Write a C program to find out the biggest among three numbers using one extra variable?

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- a) & b) See Topic: C FUNDAMENTAL, Long Answer Type Question No. 5 (a) & (b).
- c) See Topic: FLOW OF CONTROL, Short Auswer Type Question No. 11.
- 40. a) What are the basic advantages of using recursive function?
- b) Write a C program to display the Fibonacci Series of n numbers using recursion.
- c) Write a C program to check whether a number is prime or not.
- a) See Topic: FUNCTIONS, Short Answer Type Question No. 10.
- b) See Topic: FUNCTIONS, Short Answer Type Question No. 1.
- c) See Topic: FLOW OF CONTROL, Short Answer Type Question No. 12.
- 11. a) Write a program to print the series as given along with the sum:

b) Write a program to find the LCM of two numbers.

See Topic: FLOW OF CONTROL, Long Answer Type Question No. 21.