



iii) What will be the output of the following program ?

```
main ( )  
  
{   int x = 3, z;  
  
    z = x++ + ++x;  
  
    printf ("x=%d z=%d", x, z);  
  
}
```

- a) $x = 8$ $z = 5$ b) $x = 5$ $z = 6$
- c) $x = 5$ $z = 8$ d) $x = 5$ $z = 7$.

iv) What is the range of unsigned short int ?

- a) 0 to 65535 b) 0 to 255
- c) - 128 to + 127 d) none of these.

v) What is the associativity of the operation [++] ?

- a) Right to left b) Left to right
- c) both (a) and (b) d) none of these.

vi) ALU is a part of a

- a) input device b) output device
- c) memory d) CPU.



- vii) RAM stands for
- Random Access Memory
 - Read Access Memory
 - Readwrite Access Memory
 - none of these.
- viii) Which one is the special operator ?
- ? :
 - sizeof ()
 - <<
 - ++
- ix) What is the output of the following code ?
- ```
int i = 100;
while (i < 100)
{
 i = i + 1;
 printf ("%d", i);
}
```
- 100
  - No output
  - 101
  - 99.
- x) What is the output of the following code ?
- ```
main ( )
{
    int n1 = 30, n2 = 40;
    n2 = n1;
    n2? (n1, n2)?n1 : n2 : n2 ;
    printf ("%d%d", n1, n2);
}
```
- 30 30
 - 30 60
 - 60 20
 - None of these.



GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following. $3 \times 15 = 45$

7. a) What is ternary operator ? Explain with an example.
- b) Explain 'Call by Value' and 'Call by Reference' with example.
- c) Write a C function to swap two integer data and call the function from the main () function. $5 + 5 + 5$
8. a) Write a C program to arrange a set of n numbers in ascending order.
- b) Draw a flow chart to determine the largest of two numbers.
- c) What do you mean by algorithm ? Explain with an example. $5 + 5 + 5$
9. a) Convert :
- i) $(427)_{10}$ to octal
- ii) $(110010 \cdot 1011)_2$ to hexadecimal
- iii) $(12 \cdot 32)_{10}$ to binary
- iv) $(234)_5$ to $(?)_7$.
- b) Subtract 10111 from 110011 using 2's complement method.
- c) Draw the logic diagram and truth table of NAND and XOR gate. $5 + 5 + 5$



10. a) Distinguish between Array and Structure.
b) Write a C program to copy the content of a textile 'file1.txt' into another 'file2.txt'.
c) Write a C program to find the GCD of two numbers.

5 + 5 + 5

11. Write short notes on any *three* of the following : 3 × 5

- a) Dynamic memory allocation
b) Pointer
c) Storage Classes in C
d) Macro
e) Two Dimensional Array.

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