

**Group A****Multiple choice questions.****(1×9=9)**

1. Lady Augusta Ada is considered as the .....
  - a) first computer programmer
  - b) first computer mentor
  - c) first computer implementer
  - d) first computer system developer
2. Which of the following is the impact printer.
  - a) inkjet printer
  - b) laser printer
  - c) dot matrix printer
  - d) none of the above
3. How many bits are there in 2kb.
  - a) 2048
  - b) 10048
  - c) 16384
  - d) 2000
4.  $(567)_8 \rightarrow (??)_{16}$ 
  - a) 375
  - b) 177
  - c) 567
  - d) none
5. Which of the following is the valid identifier?
  - a) larea
  - b) areal
  - c) void
  - d) area-1
6. What will be the result after executing the following statements?  
`int a=10,c=13,b;`  
`printf("%d\t", c > a);`
  - a) 2
  - b) 1
  - c) 0
  - d) 1
7. While drawing flowchart parallelogram shape is used for
  - a) input
  - b) output
  - c) both a and b
  - d) none of the above
8. Which of the following is keyword of C.
  - a) int
  - b) long
  - c) unsigned
  - d) all of the above
9. What is the output of the following statement in C.  
`int i=7, c=w=119;`  
`printf("%d\n", i >=6 && c==119);`
  - a) 1
  - b) 0
  - c) True
  - d) False

## Group B

### Short answer questions.

(5×5=25)

10. What do you mean by operator, operand and operation in C. Also mention the exact output what you get while running the following code in computer. (2.5+2.5)

```
#include<stdio.h>
void main( )
{
float a=8,b=10,c;
printf(" addition =%f\n",a+b);
printf(" multiplication=%f\n",a*b);
printf(" a/b=%f",a/b);
}
```

11. What do you mean by output unit of computer system. Explain in details about impact and non-impact printers with its types. (1+4)
12. Classify the computer on the basis of purpose, type of data used. Also explain super computer and micro computer in details. (2+3)
13. What do you mean by number system. Explain about octal no system. Perform:- (1+1+3)
- a)  $(987)_{16} \rightarrow (??)_2 \rightarrow (??)_8$
- b)  $(10101.111)_2 \rightarrow (??)_{16}$
- c)  $(765)_8 \rightarrow (??)_{16} \rightarrow (??)_{10}$
14. What do you understand by source code. Mention the differences between compiler and interpreter. (1+4)

## Group C

### Long answer questions.

(8×2=16)

15. What do you mean by computer system organization and computer system architecture. Draw the block diagram of computer system and explain each blocks in detail. (2+6)
16. Write about BCD and EBCDIC. Write a program in C to input the buying price from user and calculate the total payable price in a supermarket based on given conditions, then display the discount amount and payable amount. (2+6)

Buying (price)	Discount amount	Vat
<10,000	5%	3%
10,000<buying price<=20,000	10%	5%
>20,000	12%	6%

\*\*\*Good Luck\*\*\*