

Time: 2  $\frac{1}{2}$  Hrs.

Maximum Marks : 75

Please check whether you have got the right question paper.

- Note: 1) All questions are compulsory.  
2) Figures to the right indicate full marks.

Q.1 A. State whether the following statements are True or False : **8**  
(Attempt any Eight).

1. Digital computers are more accurate than the analog computers.
2. An operating system is a part of system software.
3. Diamond shape in flow chart signifies processing.
4. 8 Bytes = 1 Bit .
5. An identifier name is user defined.
6. Every C program should end with a closing brace.
7. scanf() is used for displaying output.
8. break statement takes the control of the program to the start of the loop.
9. The function pow() is defined in the header file conio.h
10. A comma is always used in a while loop.

Q.1 B. Select the appropriate option from the following: (Attempt any 7). **7**

1. The speed of first generation computer was measured in \_\_\_seconds  
a. milli b. micro c. pico d. nano
2. The word length of a computer is generally expressed in multiples of \_\_\_ bits.  
a. 2 b. 3 c. 5 d. 4
3. The Android OS is used in \_\_\_\_\_ computers.  
a. Mini b. super c. workstation d. tablet
4. \_\_\_\_\_ is not a programming language.  
a. C b. C++ c. linux d. PHP
5. Hexadecimal system has \_\_\_ symbols.  
a. 8 b. 10 c. 2 d. 16
6. There are \_\_\_\_\_ storage classes in C.  
a. 4 b. 3 c. 2 d. 6
7. The logical OR is written as \_\_\_\_\_ in C language.  
a. && b. || c. -- d. !=
8. To decrease value of a by 5 we use \_\_\_\_  
a. a=5 b. a-=5 c. a=a+5 d. a--
9. The **default**: statement is used in \_\_\_\_\_.  
a. if() b. switch() c. nested if() d. none of these.

10. The for( x=2; x<=10;x=x+2) loop will repeat \_\_\_\_\_ times.  
 a.5                      b. 10                      c. 6                      d.9

**Q.2**

**Attempt :**

A Write short note on:

- a) tablet computer  
 b) input and output units of computer

**8**

B Explain the characteristics of a computer.

**7**

**OR**

**Q.2**

C What are binary numbers? Convert the following decimal numbers into binary system:

**8**

- i) 257    ii) 9.8125

D Explain different types of computer.

**7**

**Q3**

**Attempt :**

A What are the differences between compiler and interpreter?

**8**

B What is an algorithm? Write an algorithm to find average of three numbers.

**7**

**OR**

**Q3**

C Define flow chart. Hence draw a flow chart to find minimum of two numbers.

**8**

D Discuss the applications of computer in relation with accounting and e-commerce.

**7**

**Q4**

**Attempt:**

A Write short note on:

**8**

- a. Increment and decrement operators  
 b. Keywords

B Explain different data types in C.

**7**

**OR**

**Q4**

C Find the output of the following C program:

**8**

```
#include<stdio.h>
main ()
{
char alpha='#';
printf(“%2c %3c”,alpha,alpha);
printf(“\n%-12c %10c”,alpha,alpha);
}
```

D Find the output of the following C program:

```
#include<stdio.h>
main ()
{
int a=2, b= 12, c, d;
a*=b--;
c=a*2-b;
d=a-4;
printf(“%d %d %d %d”,a,b,c,d);
}
```

7

Q5

**Attempt:**

A Write a program in C to input sales amount(sa) and calculate and display tax as:

8

sales amount	tax
first Rs.5000	2%
next Rs.10000	3%
excess	5%

Also display sales.

B Write a program in C to find the sum 18+16+....+2

7

**OR**

Q5

C Write short note on the following with the help of suitable examples (ANY THREE):

15

- a) switch...case
- b) for loop
- c) if ...else ...
- d) while loop
- e) continue statement

-----X-----X-----