MODEL QUESTIONS FOR SEE 2080

Class : 10 (Ten)   **Time :90 min**   **F.M. :50**

Subject : Computer Science   **P.M. : 17.5**

Group 'A' (5)

1. ***Write an answer in one sentence for the following questions.***   *[1x6=6]*
   a. What is bandwidth?
   b. What is cyber bullying?
   c. Which data type is used to store alpha numeric character or special symbols in MS Access?
   d. Which view is used to modify a table in MS Access?
   e. What is modular Programming?
   f. What is an operator is C language?

2. ***Write a technical term for the following.***   *[2x1=2]*
   a. Operating system that can handle network.
   b. The skilled computer expert who uses technical knowledge to overcome a problem.

3. ***Write full forms :***   *[2x1=2]*
   a. BIT   b. CCTV

Group 'B' (12x2=24)

4. ***Answer the following.***   *[9x2=18]*
   a. What is client-server architecture of computer network? Write any two features of it.
   b. What do you mean by copyright?
   c. What is Online Payment? Write the different forms of e-payment of Nepal.
   d. What is e-governance? How does it help to the citizens?
   e. What is a backup? Why backup vital to computer security system?
   f. What is sorting? Write any two advantages of sorted database.
   g. What is computerized database? Write its advantages over manual database.
   h. Define data type. Write any four data types of MS-Access.
   i. Define indexing and filtering.

5. ***Write down the output of the given program. Show with dry run in table.[2]***
```
DECLARE FUNCTION ans(n)
INPUT "Enter a number ";n
Sum=ans(n)
PRINT "Sum of digits of entered number =";Sum
CLS
FUNCTION ans(n)
Sum = 0
WHILE n<>0
   R = N MOD 10
   Sum = Sum + R
   N = N \ 10
Wend
ans=Sum
END
```

6. ***Re-write the given program after correcting the bug:***   *[2]*
```
REM to find factorial of a given number
 DECLARE FUNCTION FACTO (N$)
 CLS
 INPUT "Enter a number" ; X
 PRINT "The factorial is "; FACTO(N)
 END
 FUNCTION FACTO(N)
 F=1
 WHILE N=0
 F=F*N
 N=N-1
 WEND
 F=FACTO
 END FUNCTION
```

7. ***Study the following program and answer the given questions:***   *[2]*
```
DECLARE SUB string(x$)
CLS
X$ = "COMPUTER"
CALL string(X$)
END

SUB string(x$)
L = LEN(X$)
FOR A= L to 1 step -2
   PRINT MID$(x$,A,1)
NEXT A
END SUB
```
   a.) What is the value of L in the above program?
   b.) List the numeric and string variable in the above program.

Group 'C' (4x4=16)

8. ***Convert/Calculate as per the instruction.***
   a. $(CCA)_{16} = (?)_8$
   b. $(2057)_{10} = (?)_2$
   c. $(1110011 - 100)_2 \div (11)_2$
   d. $(100000)_2 \times (11)_2$

9. A. Write a program in QBASIC to calculate total surface area of a cylinder using function procedure and volume using sub procedure. [Area=Total surface area=$2\pi r(r+h)$ and volume=$\pi r2h$]
   B. Write a program to create a sequential data file "salary.dat" to store programmer's name, salary and post according to the need of the user.

10. Write a program in C-language that asks any number and check odd or even number. OR
    Write a program in C-language to display the series with their sum. 1,2,3,4……………., up to 10th term.

THE END