Readersnepal.com Model Question

SUBJECT: Computer Science

TIME: 1:30hrs CLASS: X

Candidates are required to give their answers in their own words as far as practicable.

Group 'A' Very Short Answer [10x1=10]

1) Answer the following questions in one sentence: [6x1=6]

- a. What is internet?
- b. What is cloud computing?
- c. Which data type is used to store salary of an employee in MS-Access?
- d. What is an extension of MS-Access database?
- e. What are modules in QBASIC?
- f. Write any two data type used in C language.

2) Write appropriate technical term for the following:

[2x1=2]

FM: 50

PM: 20

- a. The rate at which data are transferred in a given medium
- b. The use of computer technology to create a simulated environment.

3) Write the full form of the following:

[2x1=2]

SMTP, CDMA

Group 'B' Short Answer [12x2=24]

4) Answer the following questions:

[9x2=18]

- a. Differentiate between bus and star topology with figure.
- b. What is computer crime? Give any four example of it
- c. What is hardware security? Write any two measures of software security.
- d. What is E-Commerce? Write its importance.
- e. What is mobile computing? Write any two importance of it.
- f. Differentiate between database and DBMS with example
- g. What is primary key? List any two advantages of it.
- h. What is data sorting? List any two advantages of using it.
- i. Define query? Write its importance

5) Write down the output of the given program. Show with dry run in table. [2]

DECLARE SUB SHOW (A,B)

CLS

X=1:Y=2

CALL SHOW (X,Y)

END

SUB SHOW (A,B)

I=1

DO

PRINT A

A=A+B

B=A+B

I=I+1

LOOP WHILE I <= 5

END SUB

6) Re-write the given program after correcting the bugs: [2]

REM to store record in data file

CLS

OPEN "info.dat" FOR INPUT AS #1

DO

INPUT "Enter Name, address and class"; N\$, A, C

INPUT #1, N\$, A, C

INPUT "Do you want to continue "; Y\$

WHILE UCASE\$(Y\$) = "Y"

CLOSE "info.dat"

END

7) Study the following program and answer the given questions: [2]

DECLARE FUNCTION text\$(N\$)

CLS

INPUT "Enter any string";X\$

PRINT text\$(X\$)

END

FUNCTION text\$(N\$)

- END FUNCTION
- a. What is the main objective of the program given above?
- b. List all the parameters used in above program.

Group 'C' Long Answer [4x4=16]

8) Convert / calculate as per the instruction:

[4x1=4]

- a. $(1110001110)_2 = (?)_8$
- b. $(111)_{10} = (?)_2$
- c. $(1000)_2 (111)_2 = (?)_2$
- d. $(1111111)_2 \div (111)_2$
- 9) Write a program in QBASIC to input radius of circle and calculate its area using function and circumference using sub procedure [Area= π r² and Circumference= 2π r] [4]
- 10) A sequential data file called "Record.txt" has stored data under the field heading Roll No., Name, Gender, English, Nepali, Math's and Computer. Write a program to display all the information of female students who pass in all subjects.[Note: Pass mark in all subject is 40] [4]
- 11) Write a program in C language to convert days into respective years, months and days. [4]

OR

Write a program in 'C' language to input two number and find greatest among two number.