SEE COMPUTER SCIENCE 2080 MODEL SET 3

Full Marks: 50
 Time: 2 hrs.

Candidates are required to write their answers according to the instructions given.
 Attempt all questions.

Group 'A' (10×1=10)

1. Answer the following questions in one sentence: (6×1=6)

a) What is network protocol?
 b) What is antivirus software?
 c) What is the default size of text field in MS-Access?
 d) Which data type is used to store photo in MS-Access?
 e) What is looping?
 f) Write any two features of C language.

2. Write appropriate technical term for the following: (2×1=2)

a) Law that governs the legal issues of cyberspace.
 b) The smallest unit to represent information on quantum computer.

3. Write the full form of the following: (2×1=2)

a) UTP:
 b) IoT:

Group 'B' (9×2=18)

4. Answer the following questions:

a) Write any two advantages and disadvantages of computer network.
 b) What is computer ethics? Write down any two ethics of it.

c) What is computer security? Write any two hardware security measures.

d) Give two differences between E-commerce and Traditional Commerce.

e) Define artificial intelligence (AI). Write any two uses of AI.

f) What is RDBMS? Write any two examples of DBMS.

g) What is report in MS-Access? Mention the importance of report in database.

h) What is data sorting? List any two advantages of using it.

i) List the field name and records used in the following table structure:

Symbol_No	Name	Marks
001009010	Hari Thapa	85
00100901Q	Binu Sharma	91

5. Write the output of the given program: Show with dry run in table. (2)

```
DECLARE SUB ABC(A)
CLS
A=2
CALL ABC(A)
END
SUB ABC(A)
  FOR J=1 TO 5
    PRINT A;
    A=A+3;
  NEXT J
END SUB
```

6. Re-Write the given program after correcting the bug: (2)

```
DECLARE SUB Series()

CLS
EXECUTE Series
END

SUB Series()
 REM Program to generate 1 1 2 3 5 ..... upto the 20th terms
```

```
    A=1
    B=1
    FOR ctr=1 TO 20
      DISPLAY A;B
      A=A+B
      B=A+B
    NEXT ctr
END SUB
```

7. Study the following program and answer the given questions: (2×1=2)

```
OPEN "Detail.dat" FOR INPUT AS #1
OPEN "Temp.dat" FOR OUTPUT AS #2
INPUT "Enter name of the students"; S$
FOR I=1 TO 10
   INPUT #1, Nm$, Cl, A
   IF S$<>Nm$ THEN
      WRITE #2, Nm$, Cl, A
   END IF
NEXT I
CLOSE #1, #2
KILL "Detail.dat"
NAME "Temp.dat" AS "Detail.dat"
END
```

a) What is the main objective of the program given above?
 b) Do you get any problem in the above program if "KILL" statement is removed?

8. Convert/Calculate as per the instruction: (4×1=4)

i) $(11111101)_2 = (?)_{16}$
 ii) $(245)_{10} = (?)_2$
iii) $(10110)_2 \times (101)_2$
iv) $(101110)_2 / (110)_2$

9.

a) Write a program in QBASIC that will ask the user to input length, breadth and height of a room then use SUB procedure calculate its volume and FUNCTION procedure to calculate its area of four walls. (4)

b) A sequential data file called "Record.dat" has stored data under the field heading Roll No., Name, Gender, English, Nepali, Maths and Computer. Write a program to display all the information of those students whose marks in English is more than 40. (4)

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10. Write a program in C language that asks a number and check whether it is odd or even. (4)

OR

Write a program in C language to display the series 1, 1, 2, 3, 5, 8 up to 10th terms. (4)