SEE COMPUTER SCIENCE 2080 MODEL SET 4

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 internet?
b) Name any two popular antivirus software.
c) Which view is used to modify a table structure in MS-Access?
d) Which data type is used to store alphanumeric characters or special symbols in MS-Access?
e) Which statement is used to call sub-procedure?
f) What is an operator in C language?

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

a) A malicious program of computer that damages data and software.
b) Learning through the electronic media.

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

a) G2G
b) ISP

Group 'B' (9×2=18)

4. Answer the following questions:

a) Define star topology with figure.
b) What is hardware security? Write the role of UPS in hardware security.

c) What is e-banking? Write any two uses of it.

d) What is m-commerce? Write any two important services.

e) What is IoT? Write any two importance of it.

f) Write any two advantages of computerized database.

g) What is query? Write down any two advantages of Query.

h) Define data and information.

i) List the field name from the following table structure:

Symbol No.	Name	Marks
00100200Q	Surya Gurung	85
00100201R	Birendra Sharma	91

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

```
DECLARE FUNCTION OUTPUT1(A)

CLS
N=135
CALL OUTPUT1(N)
END

SUB OUTPUT1(A)
  DO WHILE A <> 0
    R = A MOD 10
    T = T + R
    A = A \ 10
  LOOP
  PRINT T
END SUB
```

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

```
REM to add record in an existing file
CLS
OPEN "Record.Dat" FOR OUTPUT AS #1
```

```
AA:
INPUT "Enter Name, Class and Roll No."; Nm$, Cl, Rn
INPUT #2, Nm$, Cl, Rn
INPUT "More records"; Y$
IF UCASES(Y$)="Y" THEN GOTO AA
CLOSE "Record.dat"
END
```

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

```
DECLARE FUNCTION TEST(X)
X=100
Z=TEST(X)
PRINT Z
END

FUNCTION TEST(X)
  FOR R=1 TO X
    S=S+I
  NEXT R
  TEST=S
END FUNCTION
```

a) How many parameters are used in the above program?

b) How many times does the statement S=S+I execute in the above program?

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

i) $(11001101)_2 = (?)_{16}$

ii) $(524)_{10} = (?)_2$

iii) $(1010)_2 \times (110)_2 - (1011)_2 = (?)_2$

iv) $(10110)_2 \div (101)_2$

9.

a) Write a program in QBASIC that asks length, breadth and height of room and calculate its area and volume. Create a user defined function to calculate area and SUB program to calculate volume. [Hint: A=L×B, V=L×B×H] (4)

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. (4)

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10. Write a program in C language to input a number then check whether the number is fully divisible by 5 or not. (4)

OR

Write a program in C language to display first 10 odd numbers. (4)