

SEE COMPUTER SCIENCE 2080 MODEL SET 2

Subject: Opt. II Computer Science

Class: 10

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 search engine?
- b) What is the business done through the internet called?
- c) What is the default extension of MS-Access?
- d) Which object of MS-Access is used to retrieve data from the table?
- e) Write any one advantage of Modular Programming.
- f) Which is the structured programming language?

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

- a) A system of copying data and information reading in computer into another location.
- b) A company which provides services of Internet.

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

- a) POP:
 - b) AI:
-

Group 'B' (9×2=18)

4. Answer the following questions:

- a) What is computer network? List any two importance of computer network.
 - b) Write any two advantages and disadvantages of social media.
 - c) Define software security. Write any two protection measures for it.
 - d) Define e-commerce. Write the name of any two E-commerce sites.
 - e) Why mobile computing is necessary in present time? Write any two importance of it.
 - f) What is database? Give any two examples.
 - g) What is primary key? Write any two features of it.
 - h) Define field and record.
 - i) What type of work is done in MS-Access using form and query object.
-

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

```
DECLARE SUB Result (C$)
C$= "COMPUTER"
CALL Result (C$)
END

SUB Result (C$)
  FOR C=1 TO LEN(C$) STEP 2
    MS=MID$(C$,C,1)
    N$=N$+MS
  NEXT C
  PRINT N$
END SUB
```

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

```
REM to display records from existing file.
OPEN "emp.text" FOR APPEND AS #1
WHILE NOT EOF (#1)
  WRITE #1, eN$, post$, salary$
  PRINT eN$, post$, salary
NEXT
CLOSE #1
END
```

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

```
DECLARE FUNCTION SUM(N)
CLS
INPUT "Enter any number": N
X=SUM(N)
PRINT "The sum of individual digit is "; X
END

FUNCTION SUM(N)
  WHILE N<>0
    R=N MOD 10
    S=S+R
    N=INT(N/10)
  WEND
  SUM=S
END FUNCTION
```

- a) Write the function of INT.
b) How many times the WHILE.....WEND LOOP repeats if the value of N is 123?
-

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

- i) $(214)_{10} = (?)_2$
ii) $(ABC)_{16} = (?)_2$
iii) $(1011)_2 \times (101)_2$
iv) $(10101)_2 / (11)_2$
-

9.

- a) Write a program in Q-BASIC that asks length and breadth of a room and calculate its area and perimeter. Create a user-defined FUNCTION to calculate area and SUB program to calculate perimeter. [Hint: $A=L \times B$, $P=2(L+B)$] (4)
- b) Students' name, class, section and address are stored in a data file called "STUDENT.DAT". Write a program to print all the records of students. (4)
-

10. Write a program in C language that asks any two numbers and displays the greatest among them. (4)

OR

Write a program in C language to display the series 2, 4, 6, 8 up to the 10th term. (4)