

SEE COMPUTER SCIENCE 2078

Time: 3 hrs Full Marks: 50

Group A

1. Answer the following questions in one sentence. [6×1=6]

- a) Write the name of any two search engines.
- b) What is social media?
- c) Which data type is suitable to store photographs of students in MS-Access?
- d) Which view is used to modify a table structure in MS-Access?
- e) Which statement is used to call sub-procedure?
- f) Write any two data types used in C 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) FTP
- b) MAN

Group B

4. Answer the following questions. [9×2=18]

- a) What is computer network? Write any two advantages of it.
- b) Define software security. Write any two protection measures for it.
- c) What is search engine? Write any two popular search engines.
- d) Define e-commerce. Write any two benefits of it.
- e) Write any two advantages and disadvantages of social media.
- f) What is DBMS? Write any two advantages of it.
- g) What is primary key? Write any two features of it.
- h) Define field and record.
- i) Define form. Write any two uses of it.

5. Write the output of the given program: (Workout with a dry run). [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 bugs. [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=10 to 1
DISPLAY A:B:
A=A+B
B=A+B
NEXT ctr
END Series ( )
```

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
```

Questions:

- 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?

Group C

8. Convert / Calculate as per the instruction. [4×1=4]

- i) $(11111101)_2 = (?)_{16}$
- ii) $(245)_{10} = (?)_2$
- iii) $(1010)_2 \times (101)_2 = (?)_2$
- iv) $(101110)_2 \div (110)_2$

9.

- a) Write a program in QBASIC that asks length, breadth of a room and calculate its area and perimeter. Create a user defined function to calculate area and sub program to calculate perimeter. [4]

[Hint: Area=L×B, P=2(L+B)]

- 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]

10. Write a C program that asks a number and check whether it is negative, positive or zero. [4]

OR

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