SOECIS - STE – 2082

Class: - 10   F.M. 50
Subject: - Computer Science   P.M. 17.5

Group A – Very Short Answer (10 marks)

1. Write very short answers.   [6×1=6]
  a. What is a search engine?
  b. What is the business done through the Internet called?
  c. Which data type is used to store photo in MS Access?
  d. Which view is used to modify a table in MS Access?
  e. What is modular programming?
  f. What is cloud computing?

2. Write technical terms of the followings.   [2×1=2]
  a. The private network with in an organization that utilize the internet services.
  b. A person who uses a computer to gain an unauthorized access.

3. **Write the full form of the following.**   [2×1=2]
  a. SMTP   b. BIOS

Group B – Short Answers (24 marks)

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

a. What is a computer network? Enlist any two advantages of it.

b. What is computer ethics? Write any two of them.

c. What is software security? Write any two measures of hardware security.

d. What is m-Commerce? Write its two important services.

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

f. What is a database? Give any two examples.

g. What is a primary key? List any two advantages of it.

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

i. Define query and explain its importance.

5. Find the output of given program.   [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. Write a program after correcting a bug.   [2]
Rem program to find the square root of the given program
```
DECLARE SUB square (N)
ENTER N
DISPLAY square (n)
END
SUB square (N)
S= m^0.5
PRINT s
FINISH
```

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$)
FOR I = len (N$) to 1 STEP -1
W$= W$ + MID$(N$,I,1)
Next I
text$ = W$
END FUNCTION
```
  a. What is the main objective of the program given above?
  b. List all the library functions used in above program.

Group C – Long Answer Questions (16 marks)

8. Convert / calculate as per the instruction: [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. Write a program in QBASIC that asks for the length, breadth, and height of a room and calculates its area and volume. Create a user-defined function to calculate area and a sub-program to calculate volume.
   [**Hint**: A=L*B, V=L*B*H] [4]

10. Write a program in QBASIC to input radius of circle and calculate its area using function and circumference using sub.
    [**Hint**: a=pi*r^2, c= 2pi*r] [4]

11. WAP to check inputted number is odd or even by sub procedure and to check positive or negative by function procedure. [4]

The End