

National PABSAN COMPUTER SCIENCE SEE Pre Board Examination-2081

Time: 2:00 Hours | Full Marks: 50

GROUP 'A'

1. Answer the following questions:

- a. What is transmission signal?
- b. What is logical threat in cyber field?
- c. Which data type is suitable to store of student name in MS-Access?
- d. What is report?
- e. What is formal parameter?
- f. Write down two header files use in C language.

2. Write appropriate technical term for the following:

- a. The rule followed by computer in a network for communication.
- b. Learning through internet.

3. Write the full form of the following:

- a. MODEM
- b. W3C

GROUP 'B'

4. Answer the following questions:

- a. Write the difference between client/server and peer to peer network.
- b. What is computer UPS?

- c. What is cryptography?
- d. What is e-commerce? Write down advantages of it.
- e. What are the common models of e-commerce?
- f. Write the difference between update query and select query.
- g. What is sorting? Write down two advantages of it.
- h. What is table? Which view use to create table?
- i. What is data type? Give examples.

5. Write down the output of the given program:

```
DECLARE SUB SERIES ( )  
CALL SERIES  
END
```

```
SUB SERIES  
N$ = ""  
FOR I = 1 TO 5  
FOR J = 1 TO I  
PRINT N$;  
NEXT J  
PRINT  
NEXT I  
END SUB
```

6. Re-write the given program after correcting the bugs:

```
DECLARE FUNCTION SQ$ (N)  
CLS  
FOR I=1 TO 10  
DISPLAY SQ (N)  
NEXT N  
END
```

```
FUNCTION SQ (N)  
SQ=N^2  
END FUNNCTION
```

7. Study the following program and answer the given questions:

```

DIM N (10)
DECLARE SUB MIN (N ( ))
CLS
FOR I=1 TO 10
INPUT "ENTER A NUMBER"; N (I)
NEXT I
CALL MIN (N ( ))
END

SUB MIN (N ( ))
S=N (1)
FOR I=2 TO 10
IF S > N(I) THEN S=N (I)
NEXT I
PRINT "THE SMALLEST NUMBER=";S
END SUB

```

Questions:

- Which is array variable in above program?
- Which is control statement in above program?

GROUP 'C'

8. Convert/Calculate as per the instruction:

- $(165)_{10} = (?)_2$
- $(101111)_2 = (?)_8$
- $(101001)_2 \times (101)_2$
- $(1101110)_2 \div (1101)_2$

9. Answer the following questions:

- Write a program in QBASIC that asks length in meter then display length in centimeter by using FUNCTION...END FUNCTION and length in millimeter by using SUB...END SUB. [Hint: 1 meter = 100 Centimeters, 1 meter = 1000 Millimeters]
- Write a program to read records from file name "Rec.dat" and display all the records those post is manager. File contains field names are employees Name, Post, Date of birth, e-mail address and Salary.

10. Write a program in C-language that ask length, breadth and height then display volume of box. [Hint: $\text{volume} = L \times B \times H$]

OR

Write a program in C-language to display the series 5, 10, 15, 20, 25 up to 10th term.