

PRE-SEND UP Exam-2080

Gauri Shankar Secondary School Nisdi-4, Mityal, Palpa

Grade:-10 (SEE)

Subject:- Computer Science

FM:-50

Time:- 2 Hrs.

Attempt all questions

Group-A (Very Short Questions-10 Marks)

1. Answer the following questions in very short. [6×1=6]

- a) Define E-mail address.
- b) What is the vision of IT Policy of Nepal 2072?
- c) What is the default size of number field in MS-Access?
- d) Write two examples of primary key fields.
- e) What is the function of SQR in Q-Basic?
- f) Write the name of unary operators used in C-Language.

2. Write appropriate technical term of the following. [2×1=2]

- a) Paying money in E-Commerce using internet.
- b) A main computer in the computer network.

3. Write the full forms of the following. [2×1=2]

- a) HEVC
- b) VOLTE

Group-B (Short Questions -24 Marks)

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

- a) Define fiber optic cable. Write any two connectors used in it.
- b) Define digital Citizenship. Write any two elements of it.
- c) Write the difference between E-Commerce and M-Commerce.
- d) What is meant by password? Write the rules to be followed while creating the password?
- e) What is E-Government? Write any two website URL of government of Nepal.

- f) What is Database? Give any two examples of DBMS.
- g) What is foreign key? Why is it important to specify primary key in data base?
- h) What is filtering? List any two advantages of data sorting.
- i) Define query. List the types of it.

5. Write down the output of the given program. Show with dry run in table. [2]

```
DECLARE FUNCTION Interest (p,t,r)
CLS
LET p= 500
LET t=3
LET r=15
LET ans =interest(p,t,r)
PRINT "The interest="; ans
END
```

```
FUNCTION Interest (p,t,r)
I=(ptr)/100
Interest=I
END FUNCTION
```

6. Re-write the given program after correcting the bugs. [2]

```
REM to store record in data file
CLS
OPEN "info.dat" FOR INPUT AS #1
DO
INPUT "Enter Name, Address and Class"; N$,A,C
INPUT #1,N$,A,C
INPUT "Do you want to continue";Y$
WHILE UCASE$(Y$) = "Y"
CLOSE "info.dat"
END
```

7. Study the following program and answer the following questions. [2×1=2]

```
DECLARE FUNCTION prod(x,y)
CLS
INPUT "Enter first number" ;x
INPUT "Enter second number" ;y
PRINT "The product of two number is" ;prod(x,y)
END
```

```
FUNCTION prod(x,y)
P=x*y
Prod=p
END FUNCTION
```

Questions:

- a) List the numerical variables used in above program.
- b) List the local variables used in above program.

Group-C (Long Questions-16 Marks)

8. Convert or Calculate as per the instructions. [4×1=4]

- i) $(11101010101)_2 = (?)_{16}$
- ii) $(555)_8 = (?)_{10}$
- iii) $(11110)_2 + (1100)_2 - (1000)_2$
- iv) $(10110)_2 \div (101)_2$

9.

- a) Write a program in Q-BASIC that asks first term, common Difference and No. of terms of a arithmetic series and calculate its general term and sum. Create a Function procedure to calculate general term and sub procedure to calculate sum. [4]

[Hint:- $t_n = a + [(n-1) \times d]$ and $S_n = n/2 [2a + (n-1) \times d]$]

- b) A sequential data file called "RECORD.DAT" has stored data under the field heading Roll No., Name, Gender, English, Nepali, Maths and computer. Write a program to display all the information of those students whose gender is 'F' and obtained marks in computer more than 90. [4]

10. Write a C Program that takes principal, rate and time as input and calculate the simple interest. [4]

OR

Write a program in C-Language to display first 10 natural numbers.