

SEE COMPUTER SCIENCE 2081

Group 'A'

1. Answer the following questions in one sentence: (6×1=6)

- a) What is telecommunication?
- b) Give any two examples of simplex mode.
- c) Write any two methods of creating table in MS-Access.
- d) What is the maximum character you can use for creating a field name in MS-Access?
- e) Write the syntax of 'KILL' statement.
- f) Write any two keywords used in C-language.

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

- a) The websites that search documents for specified keywords in WWW.
- b) The recording of interaction with the digital world.

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

- a) UPS
- b) VR

Group 'B'

4. Answer the following questions: (9×2=18)

- a) Differentiate between guided and unguided media.
- b) Define cyber law. List any one-one do's and don'ts of cyber ethics.
- c) Define Antivirus software with two examples.
- d) Why is e-commerce more popular than traditional commerce nowadays? Give any two reasons.

- e) What is e-governance? Provide any two examples of e-governance services that exist in Nepal.
- f) What is database? Name any two data types used in MS-Access.
- g) Write the difference between field and record. (Any two)
- h) Define a report. Why is it necessary to create a report in DBMS?
- i) What is query? Mention the different types of Action query.

5. Write down the output of the given program and show them in dry run table: (2)

```
DECLARE SUB Display (T$)
T$="COMPUTER"
CALL Display (T$)
END
```

```
SUB Display (T$)
FOR C = 1 TO LEN (T$) STEP 2
D$=MID$ (T$,C,1)
PRINT D$;
NEXT C
END SUB
```

6. Rewrite the given program after correcting the bugs: (2)

```
REM to add record in an existing file.
OPEN "student.dat" FOR OUT AS #2
TOP:
INPUT "Enter Name, Class and Roll No."; SName$, C, RN
INPUT#2, SNames$,C,RN
INPUT "More records"; Y$
IF UCASE$(Y$)="Y" THEN GOTO POP
CLOSE #2
STOP
```

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

```
DECLARE FUNCTION COUNT (A$)
CLS
INPUT "Enter any word";W$
END
```

```

FUNCTION COUNT (A$)
B = LEN(A$)
C = 0

FOR i=1 TO B
E$=MID$(CS,i,1)
IF E$ ="A" OR E$ ="E" OR E$ ="I" E$ ="O" OR E$ ="U" THEN
C=C+1
END IF
NEXT i
COUNT=C
END FUNCTION

```

Questions:

- Write down the missing statement in the main module to execute the program.
- List any two string functions used in the above program.

Group 'C'

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

- $(1503)_8 = (?)_{16}$
- $(101000101)_2 = (?)_8$
- $(1010 + 1101)_2 - (110)_2$
- $(100111)_2 \div (110)_2$

9. Answer the following questions:

- Write a program in QBASIC that asks length, breadth and height of room and calculate its perimeter and volume. Create a Function procedure to calculate perimeter and Sub procedure to calculate the volume. [HINT: Volume = $L \times B \times H$ and perimeter = $2(L + B)$] **(4)**
- Write a program to read data from the sequential data file name "std.dat" which contains student's name, roll no, and marks of English, Nepali, Maths, and Computer of few students. Display the result with all the information of those students whose marks in computer is more than 40. **(4)**

10. Write a program in C-language to find the greatest number among any two different input numbers. (4)

OR

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