

Model Question Paper – 1

Group A – Computer Fundamental (22 Marks)

1) Answer the following questions. [5×2 = 10]

- a) What is computer network?
 - b) What is Internet?
 - c) Write any four preventive measures to protect a computer system from virus infection.
 - d) Write any two software used in multimedia.
 - e) What is hardware security?
-

2)

a) Convert as instructed. [2×1 = 2]

- i. $(101)_{10}$ into Binary
- ii. $(75)_8$ into Decimal

b) Perform the binary calculation. [2×1 = 2]

- i. $(10101)_2 - (1011)_2$
 - ii. $(111)_2 \times (11)_2$
-

3) Match the following. [4×0.5 = 2]

Column A

Column B

- | | |
|-------------|------------------|
| T-connector | Network |
| Bridge | Power protection |
| CD-ROM | Co-axial cable |

Spike guard Multimedia
 component

 Virus scanning

4) Choose the correct answer. [4×0.5 = 2]

a) Which is not a network topology?

- Star
- Ring
- Client server
- Bus

b) When was cyber law introduced in Nepal?

- 2061 BS
- 2062 BS
- 2007 BS
- 2016 BS

c) Multimedia technology is used in:

- Education
- Business
- Healthcare
- All of the above

d) Boot sector virus infects:

- System files
 - Master boot record
 - Application software
 - Document file
-

5) Give appropriate technical terms. [4×0.5 = 2]

- a) Rules and format to accept and transfer data in computer network.
 - b) Moral rules to be followed by computer and other professionals.
 - c) Making extra copy of data and software.
 - d) A virus that corrupts system files of operating system.
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6) Write full forms. [4×0.5 = 2]

- a) WWW
 - b) MAN
 - c) OS
 - d) NIC
-

7) Answer the following questions. [3×2 = 6]

- a) What is DBMS? Write any two examples of DBMS software.
 - b) List any four data types used in MS-Access.
 - c) What is form? Write any two advantages of using form.
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8) Select the correct answer. [4×0.5 = 2]

a) Date/Time occupies ... Bytes of memory.

- 4
- 2
- 8
- 16

b) The extension of database file in MS-Access is:

- DBF
- DBM
- MDB
- DMB

c) The object of MS-Access that is used to generate hard copy of records:

- Query
- Table
- Form
- Report

d) A ... Key uniquely identifies a record.

- Primary
- Foreign

- Composite
 - None
-

9) Match the following. [4×0.5 = 2]

Column A	Column B
Default value	255 character
FoxPro	Column name
Text	DBMS
Field	Field properties
	Search fast

Group C – QBASIC Programming (18 Marks)

10) Answer the following. [3×1 = 3]

- What is modular programming?
 - Write any two advantages of structured programming.
 - Write the function of the following statements: **FILES**, **KILL**
-

11) Debug the given program. [2]

```
DECLARE
REM *fibonacci series*
CALL SUB fibonacci
END
SUB fibonacci
a=1
```

```
b=1
FOR x=1 TO 10
DISPLAY a;
a=a+b
b=a+b
END fibonacci
```

12) Write the output of the following program. [2]

```
DECLARE SUB series ( )
CALL series
END
SUB series
X=1
Y=1
FOR z=1 TO 4
PRINT x;
Y=Y+1
X=X*10+Y
NEXT z
END SUB
```

13) Read the given program and answer the following questions. [2]

```
DECLARE FUNCTION num (n)
INPUT n
S = num (n)
PRINT s
END
FUNCTION num (n)
x = INT(17/n)
y = 15 MOD n
num = x + y
END FUNCTION
```

- a) Write the names of the functions used in the above program.
 - b) List out the mathematical (library) function used in the above program.
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14)

- a) Write a program using FUNCTION module to calculate and print the volume of a cylinder.

Formula: $V = \pi r^2 h$ [3]

- b) Write a program to declare SUB module to calculate and print the volume of a box. **[3]**

- c) Write a program to create a sequential data file "**Employee.dat**" to store employee's name, address, age, gender and salary. **[3]**

