

# Model Question Paper – 2

---

## Group A – Computer Fundamental (22 Marks)

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

- a) Differentiate between star and bus topology.
  - b) Distinguish between email and traditional postal service.
  - c) Write any four ill-effects of computer virus.
  - d) Write any four software security measures.
  - e) How can we use multimedia in education? Explain.
- 

### 2)

#### a) Convert as instructed. [2×1 = 2]

- i.  $(8797)_{16}$  into Decimal
- ii.  $(753)_8$  into Hexadecimal

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

- i.  $(1000)_2 - (111)_2$
  - ii.  $(1010)_2 \div (10)_2$
- 

### 3) Match the following. [4×0.5 = 2]

Column A	Column B
Bandwidth	ISP
Internet	POP
Protocol	bps
Hardware security	NAV

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

a) Which is not a guided media?

- UTP cable
- STP cable
- Satellite
- Fiber optics

b) Which device is necessary to operate Internet?

- CD-ROM
- CCTV
- MODEM
- ALL

c) MODEM converts:

- Sound into digital
- Digital signal into sound
- Both 1 and 2
- None of the above

d) Which is not an Internet service?

- e-mail
  - IRC
  - ISP
  - e-commerce
- 

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

- a) Making extra copy of data or program.
  - b) A card used to connect network cable to computer.
  - c) Device used for power protection.
  - d) Program used to detect and eliminate computer virus.
- 

**6) Write full forms. [4×0.5 = 2]**

- a) Wi-Fi
  - b) UPS
  - c) TCP/IP
  - d) UTP
- 

**Group B – DBMS (10 Marks)**

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

- a) Differentiate between database and DBMS.
  - b) Define primary key. Write its importance.
  - c) What is query? Write its importance.
- 

**8) State whether the following statements are true or false. [4×0.5 = 2]**

- a) Primary key does not accept null value.
  - b) The extension of database file created by MS-Access is BDF.
  - c) Memo data type can be indexed.
  - d) \_\_\_\_\_
- 

**9) Match the following. [4×0.5 = 2]**

Column A	Column B
Primary key	Formatted output
OLE	Interface
Form	64,000 characters
Report	Unique field
	Picture

---

**Group C – QBASIC Programming (18 Marks)**

**10) Answer the following. [3×1 = 3]**

- a) What is user-defined function?
  - b) Write any two data types used in C language.
  - c) Write the function of the following statements: **NAME**, **SHELL**
- 

**11) Debug the given program. [2]**

```
DECLARE FUNCTION reverse$(N$)
INPUT "Any String"; N$
X$ = reverse$(N$)
PRINT N$
END
```

```
FUNCTION reverse(N$)
L = LEN$(N$)
FOR X = L TO 1 STEP -1
A$ = MID$(N$, X, 1)
B$ = B$ + A$
NEXT X
B$ = reverse$(N$)
END FUNCTION
```

---

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

```
DECLARE SUB series ()
CALL series
END
SUB series
X = 1
FOR K = 1 TO 4
    PRINT X;
    X = X + K
NEXT K
END SUB
```

---

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

```
DECLARE SUB SUM (N)
N = 5
CALL SUM (N)
END
SUB SUM (N)
FOR X = 1 TO N
    S = S + X
NEXT X
PRINT S
END SUB
```

- a) In the above program, how many times does the **FOR ... NEXT** loop execute?
  - b) Write the name of the procedure used in the above program.
- 

**14)**

- a) Write a program to calculate the average of three numbers using FUNCTION procedure. **[3]**
- b) Write a program to print the total number of vowel alphabets present in the given word using SUB procedure. **[3]**
- c) A data file "**STAFF.dat**" has stored records of few employees with EMPID, First name, Last name, Post and Salary. Write a program to display all the records of the employees whose salary is more than 40,000. **[3]**