**Class : Nine Full Marks: 50**

**Time: 1hr 30 min Pass Marks:20**

**Subject: Computer Science**

**Group A**

**Fundamentals (22 Marks)**

1. **Answer the following questions: [5\*2=10]**
2. What are the limitation of a computer.
3. In brief, write the history of computer in Nepal.
4. Define computer hardware and software?
5. What is Arithmetic Logic Unit? List its function.
6. What is computer memory? And why secondary memory is needed for a computer.
7. **a. Carry out the following binary operations: [2\*1=2]**
8. (1101)-(1011) ii. (110011001)/(111)

**b. Convert the following as instructed: [2\*1=2]**

i. (101011) 2 =(?)10  ii. (3047)8 = (?)10

1. **Match the following: [4\*0.5=2]**

|  |  |
| --- | --- |
| 1. Fifth generation
2. RAM & ROM
3. Output device
4. Input device
 | a. Primary storageb. Touch Screenc. Secondary storaged. Biochipe. Ports |

1. **Select the best answer for the following: [4\*0.5=2]**
2. Mainly third generation computer were based on
3. microprocessor iii. Integreated circuit
4. transistors iv. capacitor
5. Cache memory is used for
6. store high volume data iii. temporary storage
7. high speed memory iv. All of above
8. A interface where a peripheral device are connected :
9. Ports iii. card
10. PCB iv. None of them
11. Which is not an example of application software...
12. MS Excel iii. Photoshop
13. Window XP iv. Outlook Express
14. **Fill in the blanks: [4\*0.5=2]**
15. Digital Camera is an \_\_\_\_\_\_\_\_\_ device.
16. \_\_\_\_\_\_\_ is online non-commercial interaction between the governmental organizations, departments and autorisities.
17. \_\_\_\_\_\_\_\_ software is specially designed and developed to solve a specific job or task.
18. QBASIC, C, C++ etc are \_\_\_\_\_\_\_\_ level languages.
19. **Write full forms of the following: [4\*0.5=2]**
20. IBM b. VGA c. PCB d. QBASIC

**Group B**

**Programming (22 Marks)**

1. **Answer the following questions: [2\*2=4]**
2. What is recycled bin? Also list any two mouse action with description.
3. What is error message and what is the use of wild card?
4. **Select the best answer for the following: [4\*0.5=2]**
5. First screen that is displayed on monitor when windows is loaded.
6. Windows iii. Icon
7. Taskbar iv. None of them
8. Is the windows GUI controls
9. Button iii. List Box
10. Check Box iv. All of them
11. Internal Command that displays the content of a drive or folder.
12. DIR iii. CHDIR
13. MD iv. RD
14. Essential files of MS-DOS
15. MS-DOS.SYS iii. DOS.SYS
16. MS.SYS iv. SYS.SYS
17. **Write MS-DOS commands for these tasks. [4\*1=4]**
18. To format the drive E:
19. To display the files having extension .txt of QBASIC folder.
20. To change the name of ”TEST.TXT” as “SUCCESS.TXT”.
21. To display the system time.

**Group B**

**Programming (18 Marks)**

1. **Answer the following question.**
2. What is flowchart and metion few symbol with meaning? [1]
3. List different types of variable. Also example of algebraic and BASIC expression. [2]
4. **Write the output of the following program: [2]**

CLS

A$ = “Computer”

L = LEN(A$)

FOR B = 1 TO L STEP 1

 C = A MOD 2

 IF C = 1 THEN

 C$ = MID$(A$, B, 1)

 PRINT UCASE$(C$);

 ELSE

 PRINT C$;

 END IF

NEXT B

END

1. **Debug the following program: [2]**

REM “to produce fibonacci numbers AS 1,4,9,16 upto 25th term”

CLS

FOR I = 1 TO 50 STEP 2

 DISPLAY (I x 2)

NEXT C

STOP

1. **Read the following program and answer the question followed.[2]**

CLS

N$=”COMPUTER SCIENCE”

LET B = LEN(N$)

LET C =1

WHILE C <= b

 M$ = MID$(N$, C, 1)

 PRINT M$

 C = C + 2
WEND

END

1. List out the numeric and string variable used in the above program.
2. Write the output of given program.
3. **Write a program : [3\*3=9]**
4. To display first five prime number.
5. That accepts a number and displays the factorial of the number.
6. To ask user to input principal amount and number of years. The program calculates and displays the simple interest on the basis of the following rates.