1. Choose the correct answers from the following questions. [10×1 = 10]

a. Which paradigm does block programming use to show how instructions can be used?
   i. Command line   ii. Binary   iii. Puzzle-piece

b. Which number system is most commonly used in everyday life?
   i. Binary   ii. Decimal   iii. Octal

c. Hard disk is considered as
   i. Main Storage   ii. Secondary Storage   iii. Flash storage

d. Which type of RAM is faster and more expensive?
   i. DRAM   ii. ROM   iii. SRAM

e. What is buffering in Primary memory?
   i. Holding data   ii. Data archiving   iii. Storing multiple files

f. What is the binary equivalent of the decimal number 10?
   i. 1010   ii. 1100   iii. 1001

g. Which protocols helps to transfer files between computers?
   i. HTTP   ii. TCP/IP   iii. FTP

h. Which of the following is container tag?
   i.
            ii. <img>   iii. <p>

i. What are sprites in Scratch?
   i. Commands   ii. Characters model   iii. messages

j. What acts as a brain of the Micro bit?
   i. Microcontroller   ii. Sensor   iii. LED Matrix

2. Give short answer the following questions.   [12×2 = 24]

a. Write the main function of microcontroller.
b. Write the function of Primary memory.
c. Define web applications. Name any two of them.
d. What are the primary functions of input devices?
e. Define Blog. Write its types.
f. What is number system? Write the meaning of base or radix of any number system.
g. What is the function of MARQUEE tag?
h. What are the advantages of using CSS?
i. Define Block Programming.
j. What can the LED Matrix on the Micro: bit display?
k. What is octal number system? Write its base value with numbers it consists.
l. Why is computer called information processing machine?

3. Give Long answer the following questions.   [4×4 = 16]

a. Define software. Explain Open-source and licensed software with its features.
b. Define scratch. Mention any four components of Scratch with their functions.
c. Calculate:
   i. 10110+1101   ii. 100110 ÷ 100
   iii. $(121)_{10} = (?)_2$ iii. $(A0C)_{16} = (?)_2$

d. Write a HTML code to create a form:

<u>My Account</u>

Username: [   ]

Password: [   ]

[Login]

The End