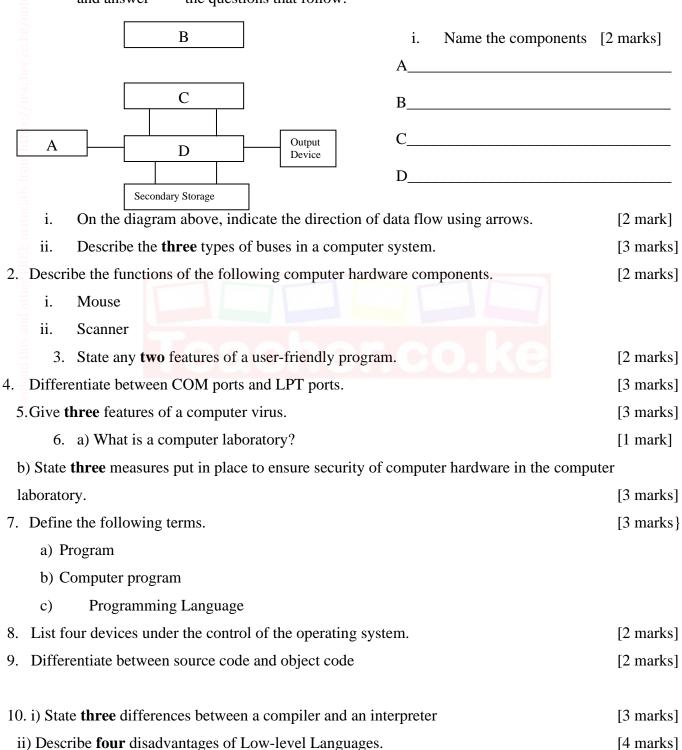


FORM THREE COMPUTER STUDIES HOLIDAY ASSIGNMENT APRIL, 2024

1. The diagram below represents the essential features of a computer system. Study the diagram and answer the questions that follow.



11. (a) Using the **place value method**, covert 23₁₀ binary

(2marks)

(b) Using two's complement, subtract 14_{10} from 27_{10} and give the answer in binary notation.

(4 marks)

(c) Convert

i)
$$91C_{16} \longrightarrow X_{10}$$

(3marks)

ii) $377_8 \longrightarrow X_{10}$

(3marks)

iii) $254.05_{10} \longrightarrow X_2$

(3marks)

