

## **ICT Assignment 2**

**Teacher: Safina** 

**Total Marks 10** 

## Kindly submit your assignment on blackboard in soft copy before due date and time

## Write your Name, Department and ID on the front page of assignment Copied Assignment will be awarded zero marks

Due Date: 17.03.2023

Briefly answer the following questions.

- 1. Differentiate between the characteristic of primary and secondary storage of a computer?
- 2. Why are mainframe systems usually limited in the number of tasks they perform?
- 3. What new types of computer application emerged during third, fourth, and fifth computer generations and what were the main driving technologies behind each?
- 4. What are advantages of transistor over vacuum tubes?
- 1. Perform the following expressions. (FACE)  $_{16} = (?)_2$
- 2. Perform the following expressions. (BEAF)  $_{16} = (?)_2$
- 3. Convert the following octal numbers into decimal  $a = (1054352)_8$   $b = (1205)_8$
- 4. Convert the following binary number into octal and then into hexadecimal number

 $a = (11100001101)_2$   $b = (1100001101)_2$   $c = (0001101111101)_2$ 

**Practice questions: (Not for Submission)** 

Convert the following hexadecimal number into binary and then binary to octal

$$a = (ABFCFDA)_{16}$$
  $b = (FDABCAA6)_{16}$   $c = (ABC)_{16}$ 

Convert the following octal numbers into decimal

Convert the following binary numbers into octal and hexadecimal

$$a = (10000011010)_2$$
  $b = (111111011110100)_2$ 

Convert the Following binary numbers into octal and then into base 6

$$a = (00111101)_2$$
  $b = (10100110)_2$ 

Convert the following octal number into binary and then into base 4

$$a = (3456721)_8$$
  $b = (56743221)_8$