MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF COMPUTING AND INFORMATION TECHNOLOGY

DEPARTMENT OF INFORMATION TECHNOLOGY

UNIVERSITY ORDINARY EXAMINATION

2020/2021 ACADEMIC YEAR

SECOND YEAR **FIRST** SEMESTER EXAMINATION FOR, DIPLOMA IN INFORMATION TECHNOLOGY

SIT 055– SYSTEM ANALYSIS AND DESIGN

DURATION: 2 HOURS

Instructions to candidates:

1. Answer question One and Any Other Two questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

a) Discuss three roles of a system analyst as an agent of change   (6marks)
b) Discuss three (3) benefits that an organization may acquire by hiring an external system analyst
                                                                                        (6marks)
c) Explain 3 functions of a steering committee   (6marks)
d) Explain three reasons why one needs to analyse a system   (6marks)
e) Explain any three (3) types of software testing that can be conducted on a software(6marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

a) Discuss 4 areas that one has to study and know if they are feasible during the feasibility study
                                                                                        (8marks)
b) Discuss 6 fact finding techniques that can be used during system development   (12marks)

QUESTION THREE (20 MARKS)

a) Explain 4 constraints that a system analyst is likely to undergo during the designing of a system
                                                                                        (8marks)
b) Describe 3 change over methods used during the switching from existing to a new developed
   system   (12marks)

QUESTION FOUR (20 MARKS)

a) Name and explain five symbols of a flowchart   (10marks)
b) Explain five advantages of using a flowchart in a system design   (10marks)