**MOUNTAINS OF THE MOON UNIVERSITY**

**FACULTY OF SCIENCE, TECHNOLOGY AND INNOVATION**

**BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

**BACHELOR OF INFORMATION TECHNOLOGY**

AND



**SEMESTER ONE EXAMINATIONS – 2022 / 2023**

DEPARTMENT : COMPUTER SCIENCE

PAPER CODE : BCS 3201/ BIT 3202

PAPER NAME : NETWORK SECURITY.

DURATION : 2 Hours

YEAR OF STUDY : THREE

DATE OF EXAM : 24th/March/2023

TIME OF EXAM : 11:00 AM – 12:00 PM

EXAMINER : Samuel OCEN.

**INSTRUCTION (S) :**

* Answer any ***all the*** questions.
* Begin each question you are answering on a fresh page.
* Read the additional instructions provided on the answer booklet.

***Attempt all Questions.***

***(Select the most appropriate answer from the choices given.)***

1. In a RSA cryptosystem a particular A uses two prime numbers p = 13 and q = 17 to generate his public and private keys. If the public key of A is 35. What is the Private Key of A? (15 Marks)
2. Generate a public and private key of modulus length 1,024 using any Asymmetric algorithm of choice. (25 Marks)

**NB: *Answers to Question 2 must be done in a folder on the desktop. Submit the whole files in the folder.***

**END**