

BOTA 872

THARAKA



UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF PROCUREMENT AND LOGISTICS MANAGEMENT**

BOTA 872: PLANT MOLECULAR GENETICS

STREAMS: MSC (BOTA)

TIME: 3 HOURS

DAY/DATE: FRIDAY 17/04/2020

11.30 A.M. – 2.30 P.M.

INSTRUCTIONS: ANSWER ANY 3 QUESTIONS

1. Discuss in details the 4 steps of translation of mRNA to manufacture proteins [20 marks]
 2.
 - (a) Describe the procedure involved in the use of restriction enzymes to map plasmids [5 marks]
 - (b) Differentiate between DNA and RNA [5 marks]
 - (c) Give 10 significance of genetic mapping [10 marks]
 3.
 - (a) Discuss the steps involved in molecular cloning technique [10 marks]
 - (b) Discuss Ribozymes [5 marks]
 - (c) Discuss any two techniques for repairing and adjusting the genome after cutting by restriction enzymes [5 marks]
 4.
 - (a) Discuss the process of transcription [12 marks]
 - (b) Discuss RNA modification [8 marks]
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