



9

EMBU UNIVERSITY COLLEGE
(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

FIRST SEMESTER EXAMINATIONS 2013/2014

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN
GENETICS

SBT 542: BIOCHEMICAL GENETICS

DATE: DECEMBER 2, 2013

TIME: 11.00 – 2.00PM

INSTRUCTIONS:

ANSWER ANY FOUR (4) QUESTIONS (25 MARKS EACH)

1. Describe in details using appropriate illustrations the process of transformation.
2. Discuss translation and the detailed role of different types of RNA during this process
3. Discuss DNA replication and the key steps that can be manipulated for beneficial exploitations?
4. Major advances have been made in recent times with regard to gene structure and function. Discuss those that have made outstanding contributions in agriculture and food production.
5. Explain what the central dogma is and describe with appropriate illustrations, transcription in prokaryotes?

---END---