



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

SECOND SEMESTER EXAMINATIONS 2013/2014

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN
GENETICS

SBT 543: DEVELOPMENTAL GENETICS

DATE: MARCH 31, 2014

TIME: 2.00 - 5.00PM

INSTRUCTIONS:

ANSWER ANY FOUR QUESTIONS (25 MARKS EACH)

1. Discuss the theories on the origin of cancer
2. Describe somatic endoreduplication and its implications during development
3. Discuss the effects of repetitious DNA on the development of an organism
4. Describe the role of RNA in gene regulation
5. Describe in detail how differential gene action results in the development of an organism

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