

EMBU UNIVERSITY COLLEGE

(A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI) FIRST SEMESTER EXAMINATIONS

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY; BACHELOR OF SCIENCE IN MICROBIOLOGY AND BIOTECHNOLOGY AND BACHELOR OF SCIENCE

SZL 201: CELL BIOLOGY

DATE: DECEMBER 10, 2014

TIME: 16:00 - 18:00

INSTRUCTIONS:

ANSWER ANY TEN (10) QUESTIONS (7 MARKS EACH)

- 1. Outline the process of translation.
- 2. Explain the theory of endosymbiosis.
- 3. Discuss centromeres and telomeres
- 4. Explain the semi conservative theory of DNA replication.
- 5. Illustrate the formation of a lysosome and state its functions.
- 6. Describe the structure and functions of endoplasmic reticulum.
- 7. Describe cell movement by pseudopodia.
- 8. Briefly discuss the structure and functions of the cytoskeleton.
- 9. Describe the preparation of plant cells for microscopic examination.
- 10. Discuss the role of mRNA in the central dogma theory.
- 11. Describe the lipid bilayer model of biological membranes.
- 12. Describe the structure of the chloroplast.

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