

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2022/2023ACADEMIC YEAR FIRST YEAR SECOND SEMESTER

SCHOOL OF PURE APPLIED AND HEALTH SCIENCES BACHELOR OF WILDLIFE MANAGEMENTAND BACHELOR OF EDUCATION

COURSE CODE: ZOO 1204
COURSE TITLE: BASIC ZOOLOGY II

DATE: 20/4/2023 TIME: 1100-1300 HRS

INSTRUCTIONS TO CANDIDATE

ANSWER ANY TEN (10) QUESTIONS.

ILLUSTRATE YOUR ANSWERS WITH SUITABLE DIAGRAMS AND EXAMPLES WHERE APPLICABLE

Instructions: Answer any TEN (10) QUESTIONS (50MKS)

- 1. With the aid of a diagram illustrate the fluid mosaic model of the plasma membrane. (5marks)
- 2. Giving examples state the general functions of connective tissues in higher vertebrates. (5marks)
- 3. Describe the digestion of starch in humans. (5marks)
- 4. Highlight the role of Van Leeuwenhoek, Robert Brown; Robert Hooke and Rudolf Virchow in the development of the cell theory. (5marks)
- 5. Distinguish between the following terms: Give examples.
 - a) Endocrine and exocrine glands b) Cristae and cisternae. (5marks)
- 6. With the aid of a diagram describe tubular re-absorption in humans. (5marks)
- 7. Draw and label a sketch diagram to show the three types of blood circulation in humans. (5marks)
- 8. Describe the functions of the cells found in connective tissues. **(5marks)**
- 9. State the role of the proteins occurring in the cell membrane. **(5marks)**
- 10. With examples explain the fact that hormones are antagonistic. (5marks)
- 11. Name the main steps and location of the processes of cellular respiration in humans. (5marks)
- 12. Explain how the structure of the relay neuronis related to its functions. **(5marks)**
- 13. Describe an experiment to illustrate the selectivity of the plasma membrane. (5marks)
- 14. You have been invited to a mixed secondary school to address Form Ones (F1s) on teenage pregnancy. Highlight five reasons why they should avoid sexual intercourse (coitus). (5marks)
- 15. Using diagrams only, illustrate the homeostatic control of salt and water in humans. (5marks)

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