

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

SECOND SEMESTER 2023/2024 ACADEMIC YEAR

**FOURTH YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN BIOCHEMISTRY**

BIOC 422: CANCER

STREAM: BIOCHEMISTRY

TIME: 2 HRS

DAY: MONDAY [11.30A.M -1.30P.M]

DATE: 15/04/2024

THIS QUESTION PAPER CONSISTS OF THREE (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.



INSTRUCTIONS : Answer all questions in section A and only One in section B**SECTION A : Answer ALL questions (50 Marks)****QUESTION ONE**

- a) List potential symptoms for cervical cancer (3 Marks)
- b) Differentiate between sarcomas and carcinomas (2 Marks)
- c) State **five** types of leukemia (5 Marks)

QUESTION TWO

- a) Define the term angiogenesis? Explain how it occurs, its relevance and name a drug that targets it (5 Marks)
- b) Highlight the various environmental factors that increase the risk of developing lung cancer (5 Marks)

QUESTION THREE

- a) (i) Supposing a patient with a swollen abdomen and yellow eyes complaining of vomiting, came to the laboratory for tests which cancer would one screen for? (1 Mark)
- ii) State the staging criteria one would use (5 Marks)
- b) State the symptoms of oropharyngeal cancer (4 Marks)

QUESTION FOUR

What is androgen deprivation therapy? Use specific examples to elucidate its mode of action (10 Marks)

QUESTION FIVE

Describe the various methods used to study oncogenes (10 Marks)

SECTION B: ANSWER ONLY ONE QUESTION (20 MARKS)**QUESTION SIX**

- a) Discuss the various treatment options for cancer (10 Marks)
- b) Describe in details the tests that are done to confirm prostate cancer (10 Marks)

QUESTION SEVEN

- a) Discuss the various treatments that can be given to a cervical cancer patient (10 Marks)
- b) Discuss the various causes of cancer (10 Marks)

