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(KNOWLEDGE FOR DEVELOPMENT)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATION

ACADEMIC YEAR 2022/2023

SECOND YEAR SECOND SEMESTER MAIN EXAMINATIONS

BACHELOR OF EDUCATION ARTS

COURSE CODE: GEO 221

COURSE TITLE: PHYSICAL GEOGRAPHY

DATE: 21ST APRIL 2023 TIME: 9:00AM- 11:00AM

DURATION: 2HOURS

INSTRUCTIONS TO CANDIDATES

ANSWER ALL QUESTIONS IN SECTION (A) AND ANY OTHER TWO QUESTIONS IN SECTION (B)

▶ KIBU OBSERVES ZERO TOLERANCE TO EXAMINATION CHEATING

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**Kibabii University ISO 9001:2015 Certified
Knowledge for Development**

SECTION A (compulsory questions)

1. a. Differentiate the following geo-physical concepts:
 - i. Environmental lapse rate and adiabatic lapse rate (4 marks)
 - ii. Weathering and erosion (4 marks)
 - iii. The lithosphere and the cryosphere (4 marks)
- b. Outline the stages involved in lithospheric isostatic adjustment. (6 marks)
- c. Citing examples in each case, discuss two positive and two negative impacts of plate tectonics. (12 marks)

SECTION B (Optional Questions)

2. .a. Explain any four ways in which vegetation cover inhibits of runoff generation in a catchment (8 marks)
- b. Describe the different flow paths followed by water from the atmosphere to a spring/well/. (12 marks)
3. .a. Highlight the stages involved in sedimentary rock formation (5 marks)
- b. Describe the different forms rock metamorphism. (15 marks)
4. .a. Discuss any four forces responsible for creation of ocean currents (12 marks)
- .b. explain any four importance of ocean currents (8 marks)
5. Examine the economic importance of sedimentary rocks found in different parts of Kenya. (20 marks)