



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2019/2020

FIRST SEMESTER EXAMINATION FOR THE DEGREE BACHELOR OF ARCHITECTURE/ARCHITECTURE STUDIES (B.ARCH), BACHELOR OF SCIENCE IN SPATIAL PLANNING (BSP), BACHELOR OF SCIENCE IN CONSTRUCTION MANAGEMENT (BCM), BACHELOR OF SCIENCE IN REAL ESTATE (BRE)

ABE 301: ENVIRONMENTAL IMPACT ASSESSMENT AND AUDIT IN THE BUILT ENVIRONMENT

DATE: Monday 9th December 2019

TIME: 8.00a.m. - 10.00a.m.

INSTRUCTIONS:

- Answer question ONE and any other TWO question
- Suitable diagrams should be used whenever they serve to illustrate an answer

Question One

- Discuss the following concepts as applied in Environmental Impact Assessment (EIA) and Environmental Audit (EA) in the built environment.
 - Social Impact Assessment SIA (5 marks)
 - Environmental Risk Assessment ERA (5 marks)
 - Strategic Environmental Assessment (SEA) (5 marks)
- Explain any three review methods in EIA. (3 marks)
- Explain what constitutes 'environmental right' and 'environmental crime' as provided in the Environmental Management and Coordination Act (EMCA) of 1999. (4 marks)
- Discuss the challenges facing the implementation of EIA in the built environment in Kenya. (8 marks)

Question Two

- Discuss five factors that you may consider in determining impact significance during an EIA/EA process. (10 marks)

- b) Discuss five importance of EIA that underscores its relevance for sustainable environmental management. (10 marks)

Question Three

- a) Discuss the procedural steps you would adopt when undertaking an Environmental Audit (EA) study report. (10 marks)
- b) You have been nominated by the Government of Kenya to conduct an environmental audit for the Standard Gauge Railway project. While giving examples in each, discuss the five possible broad categories of environmental impacts that may have emanated from its construction. (10 marks)

Question Four

Discuss any four methods you would use in conducting an EIA study for a proposed new library in Kenyatta University. (20 marks)

Question Five

With reference to a named project of your choice in Kenya, discuss how the following factors operate to determine making process in EIA in the built environment in order to ensure sustainability.

- i. Socially rooted values. (5 marks)
- ii. Economically rooted values. (5 marks)
- iii. Profit making values. (5 marks)
- iv. Public interest values (5 marks)