KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2020/2021
FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

BCM 401: CONSTRUCTION RISK MANAGEMENT

DATE: TUESDAY, 31ST MARCH, 2021TIME: 11.00 A.M. - 1.00 P.M.

INSTRUCTIONS:

1. **Question ONE is compulsory**
2. **Attempt any TWO Questions from Section B**

SECTION A: (30 MARKS)

1. (a) In relation to Construction Risk Management Explain the meaning of the terms below.
   - (i) Work Breakdown Structure
   - (ii) Intellectual property
   - (iii) Cost Plus Contract
   - (iv) Risk Retention
   - (v) Risk Treatment

   (b) You are contracted by a client to build a social Amenity; you are therefore required to conduct and Environmental Impact Assessment on the proposed piece of Land to avoid Environmental Risks.
   - (i) Explain FIVE principles that shall guide you, as you conduct the Environmental Impact Assessment Report. (10 marks)
   - (ii) Explain FIVE Characteristic(s) information to be incorporated in the EIA study report. (10 marks)

2. (a) List and Explain SIX Environmental Risk treatment strategies. (12 marks)

   (b) As a Construction Manager, Explain FOUR benefits of Environmental Risk Management. (8 marks)

3. (a) Explain FIVE stages involved in the process of Initial Assessment of risk Work Breakdown Structure by the project team in an interactive session. (10 marks)

   (b) Stage and Explain FIVE objectives of Risk Assessment in the Tender Evaluation stage of a construction project. (10 marks)

4. The government of Kenya Contracted a Chinese Contractor to Construct a Stadium in Nairobi using the PPP procurement Model:

   (a) (i) State the NINE stages used to procure this contractor as stipulated in the PPP Laws (9 marks)

   (ii) State FIVE advantages of PPP Model of a construction project implementation. (5 marks)

   (b) Explain THREE forms of procurements that allocates rights and responsibilities differently as used in construction projects. (6 marks)

5. (a) Construction Project Risk Prevention strategies are directed to eliminating sources of Risks of Reducing substantially the likelihood of their occurrences, Explain at least SIX ways of Construction project Risk Prevention. (12 marks)

   (b) Explain FOUR methods of Construction Projects Risk Management in Kenya. (8 marks)