



KENYATTA UNIVERSITY

EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

BCM 401: CONSTRUCTION RISK MANAGEMENT

1ST SEMESTER 2021/2022

TIME: 2 HOURS

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) Risk
 - (ii) Work Breakdown Structure
 - (iii) Intellectual property
 - (iv) Cost Plus Contract
 - (v) Risk Retention
 - (vi) Risk Treatment (12 marks)
- (b) As a Project Manager, state and explain any FIVE reasons why construction projects have the highest vulnerability to Risks. (10 marks)
- (c) Describe the FOUR approaches for construction risk management (8 marks)

SECTION B: (40 MARKS)

2. (a) Explain FIVE categories of Construction Risks (10 marks)
- (b) Explain the significance of Environmental Impact Assessment report (2 marks)
- (c) As a construction Manager, Explain FOUR benefits of environmental risk management (8 marks)
3. (a) Using an illustration, Explain the construction Risk Hierarchy (8 marks)
- (b) List FOUR potential sources of Construction Risks (4 marks)

INVOLVEMENT IN ANY EXAMINATION IRREGULARITY SHALL LEAD TO DISCONTINUATION

- (c) State and Explain FOUR Objectives of risk assessment in the tender evaluation stage of a Construction Project (8 marks)
4. The government of Kenya contracted a Chinese Company to construct Thika road using the PPP Procurement Model:
- (a)
- i. State the NINE Stages used to procure this company as stipulated in the PPP Laws (5 marks)
 - ii. State FIVE Advantages of PPP Model in a construction project implementation (5 marks)
- (b) State and explain Five tools and techniques used by construction managers to control risk. (10 marks)
5. (a) Describe FOUR construction risk treatment strategies. (8 marks)
- (b) Explain FOUR Methods of Construction projects risk management in Kenya (8 marks)
- (c) List FOUR Qualitative techniques used in Risk Analysis (4 marks)