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University Examinations 2019/2020

THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF TECHNOLOGY IN CIVIL ENGINEERING

ECT 3408: CONSTRUCTION MANAGEMENT II

DATE: OCTOBER 2020

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Define the following terms as applied to construction management
 - i. Team (2 marks)
 - ii. Management (2 marks)
- b) Explain the difference between the following as applied in a construction project by a construction manager
 - i. Plan and strategy (2 marks)
 - ii. Power and authority (2 marks)
- c) Describe the growth of management discipline from the early times to the present period (4 marks)
- d) A construction manager will be in charge of various teams tasked with delivery in different aspects of the project. State six characteristics that these teams should exhibit as effective teams (3 marks)
- e) As a construction manager, state and explain any 4 organization structure you would adopt to effectively manage a construction project (4 marks)
- f) Name any 3 types of risk in a construction project and explain how you would control the risks as a construction manager (3 marks)

- g) Define project control (2 marks)
- h) Name the stages in a project life cycle (2.5 marks)
- i) Name and explain any 2 programs that can be used by a construction manager to perform his functions (1 mark)
- j) Define operations management and state one role it plays in an organization (2.5 marks)

QUESTION TWO (20 MARKS)

- a) Define leadership as applied in construction management (1 mark)
- b) Discuss three different styles of leadership that a construction manager as a leader may adopt to effectively and efficiently deliver on a construction project (9 marks)
- c) Your parent organization has retained you as a construction manager for a building construction project they are undertaking. State and explain the functions of your position in the construction project (10 marks)

QUESTION THREE (20 MARKS)

- a) Explain the management principles and characteristics adaptable to an efficient and effective construction projects that are cost effective (20 marks)

QUESTION FOUR (20 MARKS)

- a) What are the contribution of the following theorists to management discipline
 - i. Fredrick Taylor 1856-1915 (4 marks)
- b) Douglas McGregor 1906-1964 (4 marks)
- c) Discuss the emerging concepts in construction management (12 marks)

QUESTION FIVE (20 MARKS)

- a) Explain five types of teams a construction manager may form to undertake a construction project (10 marks)
- b) Discuss the different stages in a team's development to maturity (10 marks)