JULIUS NYERERE SCHOOL OF SOCIAL SCIENCES

DEPARTMENT OF REGIONAL AND URBAN DEVELOPMENT

BACHELOR OF SCIENCE HONOURS DEGREE IN URBAN PLANNING AND DEVELOPMENT

LEVEL 4 SEMESTER 2

EXAMINATION QUESTION PAPER

MODULE CODE	**RUPH 429**
MODULE NARRATION	**CONSTRUCTION ECONOMICS AND MANAGEMENT**
DATE	**2024**
DURATION	**3 HOURS**

INSTRUCTIONS TO CANDIDATES:

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1. Answer Question 1 in Section A and any other two questions in Section B
2. All workings must be shown and written legibly.
3. Take the scale to be 1:100 on all drawings and take all measurements as given
4. Materials allowed in the exam: Scientific Calculator

SECTION A

1. (a) Illustrate your understanding of 'tendering in the construction industry' [5]

(b) With reference to the attached building plan, (Attachment 1) take off the quantities of materials up to window level (excluding the lintel). Make and state relevant assumptions. [35]

SECTION B

2 A circular water tank has an internal diameter of 28 metres and it has a wall thickness of 0.23 metres. The height of the wall is 4 meters.

(a) Based on the given information :

Estimate the number of 50kg bags of cement required to plaster the interior of the tank given that a 10 millimetre plaster thinness was used at a ratio of 1:3 [6].

i. Estimate the number of 8 cubic meter truckloads of river sand required for plastering the interior of the tank [6]
ii. Estimate the amount of paint required to paint the exterior part of the tank if 20l PVA paint covers 15 square meters of the wall [6]
iii. Estimate the capacity of the tank [6]

(b) Given that there are 110 bricks per square meters of brick work, estimate the number of bricks used to be build the tank. [6]

3 (a) Disputes are inevitable in the construction industry. Identify the different forms of disputes and describe how disputes are resolved in the construction industry. [15]

(b) Giving adequate examples identify the various methods of procurement [15]

4. (a) Explain the project life cycle. (10)

(b) Examine the importance of feasibility studies in construction project management. (10)

(c) Discuss five ways that could be used for total quality of a typical construction project. (10)

5. A local authority in your area intends to build fifty (50) housing units at a local growth point. The council engages you as project manager:

a) Discuss key issues that the client must consider before selecting the appropriate contract between them and the contractor. [10]

b) Explain in detail to the client, the various contract options that are used in the construction industry. [20]

END OF QUESTION PAPER