

Register Number: .....

**M.E. CONSTRUCTION MANAGEMENT DEGREE EXAMINATIONS: NOV/DEC 2024**

(Regulation 2018)

Third Semester

**CONSTRUCTION MANAGEMENT**

P18CME0011: Construction Site Administration and Control

**COURSE OUTCOMES**

**CO1:** Plan job site layout for any construction project

**CO2:** Overcome the factors affecting the project productivity

**CO3:** Make the project communication with various agencies involved in the project

**CO4:** Analyse the project escalations

**CO5:** Control construction project

**Time: Three Hours**

**Maximum Marks: 100**

**Answer all the Questions: -**

**PART A (10 x 1 = 10 Marks)**

1. Arrange the following in the correct sequence for Project Time Management: CO3 [K<sub>3</sub>]
  - (A) Develop Schedule
  - (B) Define Activities
  - (C) Sequence Activities
  - (D) Estimate Activity Resources
  - (E) Estimate Activity Durations

a) C, A, B, D, E	b) B, A, D, C, E
c) B, C, D, E, A	d) A, B, C, D, E
  
2. Put the following steps in the process of selecting consultants in order: CO4 [K<sub>5</sub>]
  - (A) Shortlisting consultants
  - (B) Invitation for Expression of Interest (EOI)
  - (C) Evaluating Proposals
  - (D) Issuing Request for Proposals (RFP)
  - (E) Negotiations and Contract Award

a) A, B, C, D, E	b) B, A, D, C, E
c) A, B, D, C, E	d) C, A, B, D, E
  
3. Arrange the following project process groups in the correct order: CO3 [K<sub>2</sub>]

- (A) Closing
- (B) Executing
- (C) Planning
- (D) Monitoring & Controlling
- (E) Initiating

- a) B, C, D, E, A
- b) C, B, D, E, A
- c) C, E, B, D, A
- d) E, C, B, D, A

4. Match the contract type with its usage:

CO1 [K<sub>3</sub>]

List I	List II
A. Lump Sum Contract	i. Architectural services
B. Time-Based Contract	ii. "On-call" advisory
C. Percentage Contract	iii. Well-defined scope and duration
D. Indefinite Delivery Contract	iv. Undefined duration

- a) A-i, B-ii, C-iii, D-iv
- b) A-ii, B-iii, C-i, D-iv
- c) A-iii, B-iv, C-i, D-ii
- d) A-iv, B-iii, C-i, D-ii

5. In the context of professional service procurement, what type of contract is based on a predetermined price for the entire scope of work?

CO3 [K<sub>3</sub>]

- a) Time-Based Contract
- b) Lump Sum (Firm Fixed Price) Contract
- c) Retainer and/or Contingency (Success) Fee Contract
- d) Percentage Contract

6. A project delay caused by factors such as weather or natural disasters is classified as:

CO2 [K<sub>4</sub>]

- a) Technical delay
- b) External delay
- c) Organizational delay
- d) Internal delay

7. Assertion (A): Stakeholder management is essential in communication management.  
Reason (R): Identifying stakeholders happens only after the planning phase.

CO5 [K<sub>3</sub>]

- a) A is true, but R is false.
- b) A is false, but R is true.
- c) Both A & R are true
- d) Both A & R are false

8. Assertion (A): Project Time Management involves defining activities and scheduling.  
Reason (R): Controlling schedules is the main responsibility of quality management.

CO1 [K<sub>2</sub>]

- a) A is true, but R is false.
- b) A is false, but R is true.
- c) Both A & R are true
- d) Both A & R are false

9. What is the purpose of the Instructions to Consultants (ITC) in the procurement

CO4 [K<sub>2</sub>]

process?

- a) To select the consultant with the lowest financial proposal      b) To negotiate the terms of the contract
- c) To provide information on the evaluation process and criteria      d) To specify the budget for the assignment
10. What is the purpose of the Letter of Invitation (LOI) in the procurement process?      CO4      [K<sub>2</sub>]
- a) To select the consultant with the lowest bid      b) To finalize the financial proposal
- c) To state the intention of the employer to enter into a contract      d) To negotiate the contract terms

**PART B (10 x 2 = 20 Marks)**

11. What is the purpose of the Project Charter?      CO1      [K<sub>1</sub>]
12. Name any three of the nine knowledge areas in the PMBOK      CO3      [K<sub>2</sub>]
13. What is the difference between a functional organization and a projectized organization?      CO1      [K<sub>2</sub>]
14. Can you provide an example of a project where the Build Lease Transfer (BLT) method could be used?      CO2      [K<sub>3</sub>]
15. Why is it important to define project requirements clearly in a BOOT project?      CO5      [K<sub>2</sub>]
16. List any two types of delays that could affect a project.      CO4      [K<sub>2</sub>]
17. How does the critical path method help in managing delays?      CO2      [K<sub>3</sub>]
18. What are the key differences between Quality Based Selection (QBS) and Fixed Budget Selection (FBS) methods?      CO4      [K<sub>2</sub>]
19. How is Under Influence & Misrepresentation affect a contract? Explain each term.      CO3      [K<sub>3</sub>]
20. What is a Sound Mind, Consent and Free Consent? How is it related to competency to participate in contract?      CO5      [K<sub>3</sub>]

**PART C (6 x 5 = 30 Marks)**

21. Explain the concept of the triple constraint in project management and its impact on project success.      CO3      [K<sub>3</sub>]
22. Analyze the importance of site planning and zoning in a construction project      CO1      [K<sub>4</sub>]
23. Analyze the role of project integration management in project management and how it affects and is affected by other knowledge areas in the PMBOK.      CO3      [K<sub>4</sub>]

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|-----|---|-----|-------------------|
| 24. | Relate and explain the role of management (management aspect) in ensuring safety at site. Also elaborate the approach/procedures taken by the management in detail. | CO5 | [K <sub>3</sub> ] |
| 25. | What is BIM and its significance in construction industry. Explain LOD 100 to 500 with example.   | CO5 | [K <sub>2</sub> ] |
| 26. | What is EOI? What are the documents involved for invitation of EOI?   | CO4 | [K <sub>3</sub> ] |

**Answer any FOUR Questions**  
**PART D (4 x 10 = 40 Marks)**

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|-----|--|-----|-------------------|
| 27. | Using the evaluation criteria, propose a job layout for a construction project.  | CO1 | [K <sub>3</sub> ] |
| 28. | Relate and explain the stages of a Project Life Cycle of a 2m(length)x2m(width)x3m(height) RCC framed structure 'Bus Stop' construction project. | CO2 | [K <sub>3</sub> ] |
| 29. | Elaborate the following terms in Contract: a) Proposal b) Promisee c) Agreement d) Contract e) Voidable Contract                                 | CO3 | [K <sub>2</sub> ] |
| 30. | List down the Operational procedures for the Work Permit System. Using a Flow chart, show how the Work Permits are issued                        | CO4 | [K <sub>3</sub> ] |
| 31. | Create an Agenda and a Minutes of Meeting (with proper format), for a PMC, for a residential interior project kick off meeting.                  | CO5 | [K <sub>4</sub> ] |

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