**TED (21) 5011** Reg. No: ……………………

**(Revision – 2021)** Signature: ………………….

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/ COMMERCIAL PRACTICE, APRIL- 2025**

Construction Management and Safety Engineering

[Maximum Marks: **75**] [Time: **3** Hours]

# PART-A

1. **Answer *all* the following questions in one word or one sentence. Each question carries**

***‘one’* mark.** (9 x 1 = 9 Marks)

**Module Outcome Cognitive level**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | What is mean by DPR ?. | M1.01 | R |
| 2. | List any two types of organization. | M1.02 | R |
| 3. | Define Event, activity | M2.02 | R |
| 4. | Define Cost slope | M2.03 | R |
| 5. | Define tender | M3.01 | R |
| 6. | List out any two different modern equipment used in construction  projects. | M3.04 | R |
| 7. | Define material management. | M2.04 | R |
| 8. | List out any two effects of accidents. | M4.01 | R |
| 9. | List out any two basic principles of safety. | M4.01 | R |

# PART-B

1. **Answer any *eight* questions from the following. Each question carries *‘three’* marks.**

(8 x 3 = 24 Marks)

**Module Outcome Cognitive level**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Identify Role of various personnel in construction organization. | M1.01 | R |
| 2. | What are the factors affecting site layout? | M1.03 | U |
| 3. | List out and explain principles of organization. | M1.01 | R |
| 4. | Explain inventory control by VED technique | M2.04 | U |
| 5. | Define  Floats: Types of Floats-Free, independent and total floats, | M2.02 | U |
| 6. | Identify the factors related to selection of equipment. | M3.04 | U |
| 7. | What are the procedures for e- tender. | M3.01 | U |
| 8. | Describe procedures involved in arbitration and settlement. | M3.03 | U |
| 9. | List out what are the effects of accidents. | M4.03 | U |
| 10. | List out precautions in handling hazardous materials. | M4.01 | R |

# PART-C

Answer all questions. Each question carries *‘seven’* marks

(6 x 7 = 42 Marks)

**Module Outcome Cognitive level**

|  |  |  |  |
| --- | --- | --- | --- |
| III. | Mention three types of organization and explain any one.  **OR**  Describe types of disputes in construction management. | M1.01 | R |
| IV. | M1.04 | U |
| V. | Explain Normal Time and Cost, Crash Time and Cost.  **OR**  List out what are the precautions in drawing Network. | M2.02 | U |
| VI. | M2.03 | A |
| VII. | Identify different modern equipment used in construction projects.  **OR**  List out types of Construction contracts and explain each. | M3.04 | U |
| VIII. | M3.02 | R |
| IX. | What is Labour Laws and Acts pertaining to Civil construction activities **OR**  What is the role of supervisor/ Engineer in ensuring safety at construction site. | M4.01 | R |
| X. | M4.02 | U |
| XI. | Explain Land acquisition procedures and providing compensation.  **OR**  List out major causes of accidents at project site | M1.04 | U |
| XII. | M4.04 | U |
| XIII. | Differentiate between PERT and CPM  **OR**  Explain inventory control by ABC technique. | M2.03 | A |
| XIV. | M2.04 | U |