

Enrollment No.....



Faculty of Engineering
End Sem Examination Dec-2023

CE3EC07 Construction Safety & Management

Programme: B.Tech.

Branch/Specialisation: CE

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

- Q.1 i. Which of the following techniques is used for initial review of safety? **1**
(a) Interview with employees
(b) Questionnaires
(c) Checklist
(d) All of these
- ii. The object of technical planning, is- **1**
(a) Preparation of specifications
(b) Initiating the procurement action of resources
(c) Taking remedial action for likely bottleneck in the execution
(d) All of these
- iii. When making an investigation report we should- **1**
(a) Write down our best guess at how it happened
(b) Stick to the facts
(c) Be detailed
(d) Give our opinion
- iv. Works Costing less than Rs 2,00,000 are treated as- **1**
(a) Minor project
(b) Major Project
(c) Medium Project
(d) None of these
- v. During the investigation we should- **1**
(a) Take photos
(b) Gather witness statements
(c) Collect any physical evidence
(d) Find the root cause and share our findings to prevent future accidents

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- vi. The technique for establishing and maintaining priorities among the various jobs of a project, is known- **1**
 (a) Event flow scheduling technique
 (b) Critical ratio scheduling
 (c) Slotting technique for scheduling
 (d) Short interval scheduling.
- vii. Accidents caused by lifting equipment's are fall under- **1**
 (a) Electrical hazard (b) Mechanical Hazard
 (c) Chemical Hazard (d) None of theses
- viii. What is included in the quality assessment in TQM? **1**
 (a) Strategic quality planning
 (b) Management of process quality
 (c) Quality and operational results
 (d) Information and analysis
- ix. The following is indirect cost of accident- **1**
 (a) Money paid for treatment of worker
 (b) Compensation paid to worker
 (c) Cost of lost time of injured worker
 (d) All of these
- x. Industrial safety management is that branch of management which is concerned with _____ hazards from the industries. **1**
 (a) Reducing (b) Controlling
 (c) Eliminating (d) All of these
- Q.2 i. Write different types of injuries. **2**
 ii. What are different factors affecting safety? **3**
 iii. Explain strategic planning for safety provisions. **5**
 OR iv. Write different structural safety points in construction. **5**
- Q.3 i. Explain recording injuries and accident indices. **2**
 ii. What are the safety considerations during construction? **8**
 OR iii. Explain SOPs and PPE. **8**
- Q.4 i. Explain life cycle of a construction project. **3**
 ii. Write different methods of analysis for technical feasibility. **7**
 OR iii. Explain capital budgeting and investment analysis. **7**

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- Q.5 i. Explain accident theories. **4**
 ii. Explain different applications of QMS in safety programs. **6**
 OR iii. Write different problem areas in construction safety. **6**
- Q.6 Attempt any two:
 i. Explain quality control. **5**
 ii. Write different methods for controlling safety hazard in industrial building construction work. **5**
 iii. Write different methods for controlling safety hazard in general building construction work. **5**
