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**Question Paper Code : X 85347**

M.E./M.Tech. DEGREE EXAMINATIONS, NOV./DEC. 2020

Elective

Construction Engineering and Management  
CN 5011 – PROJECT SAFETY MANAGEMENT  
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Classify the construction activities.
2. Mention a few Acts on construction accidents.
3. Mention the role of safety officers in construction site.
4. What is a safety management system for construction ?
5. What are contractual obligations ?
6. Define safety record of a project
7. List some personal safety equipments.
8. Mention few warning symbols used for safety at construction site.
9. Specify the Owner's responsibility for safety.
10. Mention a few roles of designer for safety management.

PART – B

(5×13=65 Marks)

11. a) Discuss in detail the importance of safety in construction industry. (13)

(OR)

- b) Describe the role of human factors in construction safety and safety hazard assessment. (13)

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12. a) Elaborate the elements of an effective safety programme and its benefits to construction workers. **(13)**  
(OR)
- b) Discuss in detail the assessment of Job-site safety with a typical example. **(13)**
13. a) Describe the merits and demerits of achieving project safety based on different types of contracts. **(13)**  
(OR)
- b) Explain the salient feature of safety record keeping in project site. **(13)**
14. a) Write about the role of first line supervisors and middle managers in designing safety at construction site. **(13)**  
(OR)
- b) Discuss the various aspects of workers compensation based on Tamil Nadu Factory Act. **(13)**
15. a) Express elaborately the responsibility of owners on safety management at project site. **(13)**  
(OR)
- b) Discuss in detail the safety clause in design document to achieve safety management. **(13)**

PART – C

**(1×15=15 Marks)**

16. a) Explain the problem areas in construction safety and safety measures to be implemented at a typical project site. **(15)**  
(OR)
- b) Explain the application of project coordination and safety procedures with a suitable case study. **(15)**
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