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Question Paper Code : 40331

M.E./M.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Third Semester

Construction Engineering and Management

CN 5301 — QUALITY CONTROL AND ASSURANCE IN CONSTRUCTION

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the factors influencing construction quality?
2. Define quality assurance.
3. What are the requirements of quality management system?
4. What is the use of quality manual?
5. Define consumer satisfaction.
6. Write a note on statistical tolerance.
7. Define reliability.
8. How to calculate the reliability coefficient?
9. Mention the techniques used to improve the quality of project.
10. List out the advantages of value analysis.

PART B — (5 × 13 = 65 marks)

11. (a) Describe the processes involved in project quality management.

Or

- (b) Explain the quality circle in detail.

12. (a) Discuss the importance of third party certification.

Or

(b) Explain the quality related training programs.

13. (a) Describe the ergonomics concept of quality planning.

Or

(b) Explain the Taguchi's concept of quality.

14. (a) Discuss in detail the stability methods and tools.

Or

(b) Elaborate the total quality management in construction.

15. (a) Explain the life cycle costing.

Or

(b) Discuss the factors influencing the speed of construction.

PART C — (1 × 15 = 15 marks)

16. (a) Describe the following terms

(i) Reliability testing (5)

(ii) Reliability coefficient (5)

(iii) Reliability prediction. (5)

Or

(b) Discuss in detail the value analysis and value engineering.