

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

Third Semester

Construction Engineering and Management

CN4013 – Quality Control and Assurance in Construction

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART – A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

Q.No	Questions	BLT	CO	Marks
1.	Write about the quality management guidelines.	L1	1	2
2.	List out the objectives of quality management.	L1	1	2
3.	Define BS norms.	L1	2	2
4.	What are the requirements of quality management system?	L1	2	2
5.	List out the objectives of quality planning.	L1	3	2
6.	Define cost implication.	L1	3	2
7.	List out the needs of QA/QC in construction.	L2	4	2
8.	Define mean time to failure.	L1	4	2
9.	List out the advantages of value analysis.	L1	5	2
10.	List out the various natural causes to affect the project quality.	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

Q.No	Questions	BLT	CO	Marks
11.	a i Explain the various factors influencing the construction quality.	L2	1	8
	ii Explain the various methods to improve the quality of the project.	L2	1	8
	Or			
	b i Explain the quality circle in detail.	L2	1	8
	ii Describe the various process involved in quality management.	L2	1	8
12.	a i Describe about the quality system documents preparation.	L2	2	8
	ii Explain the quality related training programs.	L2	2	8
	Or			
	b i Describe the importance of third-party certification.	L2	2	8
	ii Explain in detail the quality system standard.	L2	2	8
13.	a i Describe about the total quality management.	L2	3	8
	ii Explain the quality function deployment in detail.	L2	3	8
	Or			

	b	i	Explain the Taguchi's concept of quality.	L2	3	8
		ii	Describe the ergonomics concept of quality planning.	L2	3	8
14.	a	i	Explain the various sampling techniques.	L2	4	8
		ii	Discuss in detail the stability methods and tools.	L2	4	8
Or						
	b	i	Describe in detail the techniques and needs of quality assurance.	L2	4	8
		ii	Describe the major failure aspects and failure mode analysis.	L2	4	8
15.	a	i	Illustrate the factors considering for selection of new materials.	L2	5	8
		ii	Describe the various factors to be consider for bid preparation.	L2	5	8
Or						
	b	i	Discuss the factors influencing the speed of construction.	L2	5	8
		ii	Describe the social and environmental factors influencing the quality improvement.	L2	5	8