Reg. No.



ANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal)

II SEMESTER M.TECH (CEM)

MAKE - UP EXAMINATIONS [June 2019]

SUBJECT: Construction Quality Management (CIE -5233)

Date of Exam:

Time of Exam:

Max. Marks: 50

Instructions to Candidates: ✤ Answer ALL the questions. ✤ Missing data may be assumed suitably. Explain Juran's approach to quality in the form of 'quality triology'

1A.	Explain Juran's approach to quality in the form of 'quality triology'.									03	CO1
1B.	Write a short note on : (i) Quality loss function (ii) Kano model									04	CO1
1C.	Explain in brief the three methods of mistake or error proof concept.									03	CO1
2A.	Explain the steps involved in preparing a construction quality management plan.									03	CO1
2B.	Briefly explain the 5's phases for the workplace organization.									03	CO3
2C.	Write a short note on : (i) KAIZEN (ii) Quality circles									04	CO1
3A	Construct a Fish bone diagram for a poor quality product.									05	CO2
3B.	Following are the results of paint defects identified in an automotive assembly plant :										
	Description	Dirt in paint	sag	Orange peel	Thin paint	Sealer under	scratch	off color	others	05	CO2
	Defects	65	21	12	5	4	2	2	1		
	Construct a pareto chart and interpret which defect would be of the highest priority and why?										
4A.	What do you mean by the term 'Lean construction'?									03	CO4
4B.	Explain any three types of Benchmarking.									03	CO4
4C.	Explain the eight step plan to sustain improvement in an organization.									04	CO3
5A.	Write a short note on :(i)ISO 14000 series(ii)Process management									04	CO3 & CO5
5B	Six sigma identifies several key roles for its successful implementation. Explain										CO4
5C	When is the house of quality or QFD appropriate?										CO2