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MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL

(A constituent institution of MAHE, Manipal)

II SEMESTER M.TECH. (CONSTRUCTION ENGINEERING & MANAGEMENT)
END SEMESTER EXAMINATIONS, APRIL/MAY 2018
SUBJECT: CONSTRUCTION QUALITY MANAGEMENT [CIE 5233]
REVISED CREDIT SYSTEM
(23/ 04/ 2018)

Time: 3 Hours

MAX. MARKS: 50

Instructions to Candidates:

- ❖ Answer ALL the questions.
- ❖ Missing data may be suitably assumed.

1A.	What are the benefits of Hoshin Kauri? Explain the different steps involved in constructing an Ishikawa diagram with a neat sketch.	07
1B.	What are the things to be considered when forming a partnership?	03
2A.	Explain different types of attribute control chart.	04
2B.	Write a short note on when and how to use the Kano model.	03
2C.	'Taguchi uses the quadratic equation to determine loss curve'. Explain	03
3A.	Differentiate descriptive statistics from inferential statistics. What are the advantages of Statistical process control?	04
3B.	Write a short note on the design for quality in construction	03
3C.	Explain Pareto chart with the help of an example.	03
4A.	Draw the flow chart for Benchmarking model showing the different phases.	03
4B.	Write a short note on (i) External failure costs (ii) Motion - step method	04
4C.	Explain the seven step method in the House of Quality.	03
5A.	What is a Kanban system? What are the benefits of Supply chain management?	04
5B.	Briefly explain barriers in implementing Six sigma.	02
5C.	Explain the following: (i) ISO series (ii) Quality management system	04