Sanjay Ghodawat University, Kolhapur

Established as State Private University under Govt. of Maharashtra. Act No XL, 2017

2019-20

EXM/P/09/01

Year and Program:2019-20 **School of Technology** **Department of Civil Engg. (M. Tech)**

Course Code: CEM 515R1 **Course Title: Quality Control & Safety Management** **Semester – I**

Day and Date Monday 23/12/19 **End Semester Examination (ESE)** **Time:3hr Max Marks: 100** 10.30am to 1-30pm

Instructions: 1) All questions are compulsory.
2) Assume suitable data wherever necessary.
3) Figures to the right indicate full marks.

			Marks	Bloom's Level	CO
Q.1		**Solve the following questions.**			
	a)	What are the determinants of Quality?	07	L_3	CO1
		OR			
	a)	State various methods of the Quality Management? Explain any three.	07	L_3	CO1
	b)	Explain any four methods of measurement of customer feedback for their satisfaction.	08	L_3	CO2
		OR			
	b)	Discuss the difference between QA & QC.	08	L_3	CO2
Q.2		**Solve the following questions**			
	a)	What are the various factors affecting quality of construction?	07	L_4	CO2
		OR			
	a)	How the quality management for construction works? Explain role of each authority.	07	L_4	CO2
	b)	What are ISO 9001 (QMS) basic principles?	08	L_3	CO2
		OR			
	b)	Define Cost of Quality. Give its types.	08	L_3	CO2

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Q.3	**Solve any Two**				
	a)	Explain Quality circle with its organization structure & Give functions of Quality Circle.	08	L_3	CO1
	b)	Explain the following terms: 1. Taguchi philosophy of Quality. 2. Statistical tolerance.	08	L_3	CO1
	c)	What is Necessity of quality control in construction? Explain basic elements required in quality of construction	08	L_3	CO2
	d)	Explain Codes, Standards & Specifications with examples. List out various codes and standards required for quality management system.	08	L_3	CO2
Q.4	**Solve any Two**				
	a)	What is a structure of FMEA form? Explain each term in it.	09	L_5	CO3
	b)	Explain Life Cycle Costing & various Stages of Product Life Cycle Costing	09	L_4	CO3
	c)	What are the various steps involved in Value Analysis process.	09	L_3	CO3
Q.5	**Solve any Two**				
	a)	Write about safety management in construction projects.	09	L_4	CO4
	b)	Explain various safety equipment used in construction with sketches.	09	L_4	CO4
	c)	What are the various types of hazards of construction? Explain safety in any three hazards.	09	L_4	CO4
Q.6	**Solve any Three**				
	a)	What is mean by value analysis? Give various types of value.	06	L_3	CO3
	b)	Write note on risk priority number.	06	L_3	CO3
	c)	What is the importance of safety in construction?	06	L_3	CO4
	d)	What are the precautions should be taken to avoid fire hazards?	06	L_3	CO4

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