



Sanjay Ghodawat University, Kolhapur

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

2018-19

EXM/P/09/01

Year and Program: 2018-19

School of Technology

Department of Civil Engg. (M. Tech)

Course Code: CEM 507.1

Course Title: Quality Control & Safety Management

Semester – I

Day and Date

Monday - 24-12-2018

End Semester Examination (ESE)

Time: Max Marks: 100

10 to 1.00 pm

Instructions:

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

Q.1	Solve the following questions.	Marks	Bloom's Level	CO
a)	Define Quality Management system. Explain determinants of Quality.	07	L ₃	CO1
OR				
a)	Enlist various methods of Quality management? Explain any three.	07	L ₃	CO1
b)	Explain Taguchi philosophy of Quality .	08		CO2
OR				
b)	Explain various types of quality inspection.	08	L ₃	CO2
Q.2 Solve the following questions.				
a)	Define cost of quality & give its types.	07	L ₃	CO3
OR				
a)	What are the various factors affecting quality of construction?	07	L ₃	CO3
b)	Define reliability. Explain various reliability tests.	08	L ₃	CO4
OR				
b)	Define construction bidding. What are the various methods of bidding?	08	L ₃	CO4
Q.3 Solve any Two				
a)	Discuss various types of quality.	08	L ₂	CO1
b)	Explain the following terms: 1) cost of quality 2) statistical tolerance.	08	L ₂	CO2

c)	Explain the following:	08	L ₂	CO3
	1)TQM 2) Statistical Quality Control			
d)	Explain the following:	08	L ₂	CO4
	1) Risk priority number 2) Structure of FMEA form			
Q.4	Solve any Two			
a)	Discuss various Stages of Product Life Cycle Costing.	09	L ₃	CO5
b)	Define value Engineering and give various types of value.	09	L ₃	CO5
c)	Elaborate Life Cycle Costing Process..	09	L ₃	CO5
Q.5	Solve any Two			
a)	Enlist various safety equipment used in construction. Explain with its sketches.	09	L ₃	CO6
b)	Give importance of safety in construction & write note on safety in fire hazards.	09	L ₃	CO6
c)	What are the general causes of construction accidents? What are the various safety required on in case of demolition of structure	09	L ₃	CO6
Q.6	Solve any Three			
a)	Explain the term Environmental impact of construction	06	L ₂	CO5
b)	Compare value engineering with value analysis	06	L ₂	CO5
c)	Draw safety organization structure of a contractor with their function	06	L ₂	CO6
d)	Write note on Safety training	06	L ₂	CO6
