Total No. of Questions: 6

Total No. of Printed Pages:3

Enrolment	No
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Faculty of Engineering End Sem Examination Dec-2023

CE3EC06 Construction Quality Control & Management Programme: B.Tech. Branch/Specialisation: CE Programme: B.Tech.

D

Durat	ion: 3	Hrs.	Maximum Marks: 60
Q.1 (N	ACQs)	should be written in fu	Internal choices, if any, are indicated. Answers of I instead of only a, b, c or d. Assume suitable data ive their usual meaning.
Q.1	i.	Quality management towards company.	system perception of customers 1
	ii.	· / • · · ·	prove (c) Recede (d) Worsen action the wastage of materials, 1 e team.
		(a) Increases	(b) Decreases
		(c) Doesn't effect	
	iii.	•	reprovement for quality construction rationally 1 ts from projects.
		(a) Previous (b) Ne	ct (c) Later (d) Future
		·	e concrete handling, and testing procedures to 1 liability to the company.
		(a) Improve, increase	(b) Improve, decrease
		(c) Ruin, decrease	(d) Ruin, increase
	v.	qualit	construction the wastage of 1
		(a) Good, reduce	(b) Bad, reduce
		(c) Good, increase	(d) Bad, decrease
	vi.	The technique for est	blishing and maintaining priorities among the 1
		various jobs of a proj	ct, is known-
		(a) Event flow schedu	ling technique
		(b) Critical ratio sche	luling
		(c) Slotting technique	for scheduling
		(d) Short interval sch	duling

Q.6

	vii.	ii is not a process tools for TQM management.		
		(a) Process flow analysis (b) Histograms	3	
		(c) Plier (d) Control Ch	arts	
	viii.	Inspection, Scrap and Repair are the example	es of –	1
		(a) Internal Costs (b) External Co	osts	
		(c) Cost of Dissatisfaction (d) Societal Co	osts	
	ix.	systematic and planned actions v	which are necessary to	1
		provide adequate confidence that a product	t or service will satisfy	
		the given requirement for quality.		
		(a) Quality control (b) Quality ass	urance	
		(c) Quality enhancement (d) None of the	ese	
	х.	All of the following costs are likely to decre	ease as a result of better	1
		quality except –		
		(a) Customer dissatisfaction cost		
		(b) Inspection cost		
		(c) Maintenance cost		
		(d) Warranty and service cost		
Q.2	i.	What do you mean by quality control?		2
	ii.	How to maintain the cost of quality?		3
	iii.	Define quality assurance and explain its sign	ificance.	5
OR iv.		How to maintain the total quality manage		5
		works?		
Q.3	i.	Define the quality system in architectural des	sign	2
	ii.	Explain different aspects of quality managen	nent.	8
OR	iii.	Explain drawing and quality audit.		8
Q.4	i.	What is quality dimension of earthwork?		3
	ii.	What are the major determinants of quality c	ontrol explain in detail?	7
OR	iii.	Explain quality audit in construction work as	s per ISO 9000.	7
Q.5	i.	Define TQM in building maintenance and ex	zplain.	4
	ii.	Write down item wise check list of quality co		6
OR	iii.	Explain the quality checking as per PWD/CF	PWD Specification.	6

	Attempt any two:	
i.	Write in detail about contractor's quality assurance and quality	5
	control plan.	
ii.	Explain quality control using modern materials and construction	5
	machinery.	
iii.	Explain following terms:	5
	(a) Quality control of service lines	
	(b) Water supply	
	(c) Drainage	
	(d) Sewerage, sanitary installations	
	(e) Quality assurance circulars issued by CPWD	

Marking Scheme

CE3EC06 Construction Quality Control and Management

Q.1	i)	Answer A	1	OR
	ii)	Answer B	1	
	iii)	Answer A	1	Q.5
	iv)	Answer B	1	
	v)	Answer B	1	OR
	vi)	Answer A	1	
	vii)	Answer C	1	Q.6
	viii)	Answer A	1	
	ix)	Answer A	1	
	x)	Answer C	1	
Q.2	i.	Definition and explanation 2M	2	
	ii.	3 points 3 M	3	
	iii.	Definition 2M and explanation 3M for 3 points	5	
OR	iv.	5 points 1M each	5	
Q.3	i.	Definition 2M	2	
	ii.	4 points 8M	8	
OR	iii.	Drawing 4M and quality audit 4M	8	

	ii.	7 points 1M each	7
OR	iii.	7 points 1M each	7
Q.5	i.	Definition 2M and explanation 2M	4
	ii.	6 points 1M each	6
OR	iii.	6 points 1M each	6
Q.6			
	i.	Contractor's quality assurance 2M and Quality control plan 3M	5
	ii.	5 points 1M each	5
	iii.	1 M for each point	5

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Definition 2M and explanation 1M

Q.4 i.
