

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Diploma Engineering, Mid semester Examination

Semester: 6th

Subject Code: 03605385

Subject Name: Construction Quality Control & Monitoring

Marks: 40

Date: (21/01/2023)

Time: 7:50AM to 9:20AM

Total

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1	Answer any six out of Ten. (2 Marks Each)	(12)	CO/PO	BLOOM'S TAXONOMY
	1. List out the concepts of TQM.		CO1	UNDERSTAD
	2. Define accuracy and precision		CO1	KNOWLEDGE
	3. Prepare a checklist for quality checking of plastering work		CO1	UNDERSTAND
	4. List out the points to be kept in mind while doing curing.		CO3	Apply
	5. What is Total Quality Management (TQM)?		CO1	KNOWLEDGE
	6. Explain sources of errors in taking observation		CO1	UNDERSTAND
	7. State Trapezoidal and Simpson rule for the calculation of area.		CO1	KNOWLEDGE
	8. Explain quality with respect to civil engineering work.		CO1	APPLY
	9. Define (a) Initial setting time of cement		CO1	KNOWLEDGE
	10. Define Final setting time of cement		CO1	UNDERSTAND
Q.2	A) Explain driving forces for TQM.	(03)	CO1	KNOWLEDGE
	OR			
	A) Define most probable error, 95 % error and maximum error.	(03)	PO1	EVALUATE
	B) If standard deviation of angle measurement is $\pm 4''$ then find out most probable error,	(03)	PO1	EVALUATE
	OR			
	B) Explain the terms calibration and least count. Methods.	(03)	PO1	EVALUATE
	C) Write short note on "Planimeter"	(04)	PO1	EVALUATE
	OR			
	C) Calculate area of irregular figure from data obtained using planimeter. <ul style="list-style-type: none"> • Anchor point was kept outside. • I.R = 8.765, F.R = 2.134, M= 100 cm². • Counting disc crosses zero mark once in clockwise direction. 	(04)	PO1	EVALUATE
	D) One survey line was measured by two different batches and readings are as follow. Group -1 : 20.385, 20.394, 20.380, 20.373 Group-2 : 20.364, 20.365, 20.363, 20.364 If the true value of survey line length is 20.382 than readings of which group is precise and readings of which group is accurate.	(04)	PO1	EVALUATE
Q.3	A) State points to be considered for achieving good quality plaster work.	(03)	CO1	KNOWLEDGE
	OR			
	A) Give quality precautions while doing plumbing and drainage of building.	(03)	CO3	APPLY
	B) What are the duties and responsibilities of quality control supervisor?	(03)	CO2	CREATE
	OR			
	B) Write about important points for good quality masonry work	(03)	CO2	CREATE
	C) What are the duties and responsibility of Quality Control Engineer?	(04)	CO2	CREATE
	OR			
	C) State different field tests for deciding quality of cement.	(04)	CO2	APPLY
	D) Which are the tests for checking quality of bricks? State I S requirements of bricks for following tests of Water absorption and Compressive strength.	(04)	CO2	CREATE