				BCV657D
USN	192	J.	Question Paper	r Version : A
A S	Sixth Semester B.E./B.Tech. Deg	ree Exan	nination, Jun	e/July 2025
"	Quality Control and			,
130			- 1	
Time	1 hr. 3		4 3	[Max. Marks: 50
	INSTRUCTIONS	то тне	CANDIDATE	S
1.	Answer all the fifty questions, each que	estion carri	es one mark.	
2.	Use only Black ball point pen for writ			
3.	For each question, after selecting you			
	corresponding to the same question n		-	
4.	Darkening two circles for the same que			
5.	Damaging/overwriting, using white			
	prohibited.	eners on	the OWIK she	A strictly
1.	Who is known for the "Zero Defects" conc a) W. Edwards Deming c) Joseph Juran	b) Philip	ity management? B. Crosby er Showhart	
2.	What does "PDCA" in the PDCA cycle sta	inds for?		
	700.	b) Plan,	Do, Check, Act ent, Detect, Corr	rect, Apply
3.	Which of the following is not a cost association	ated with a	aality?	
	a) Prevention cost	b) Appr	aised cost	
	c) Inspection cost	d) Exter	nal failure cost	
4. 🦠	What is the main focus of Quality Assuran	ce (QA)?		
	a) Detecting and fixing defects c) Reducing the cost of materials		ing defects do not ling up production	
5.	Which tools is commonly used in Quality of	control to m	onitor process?	
	a) Pareto chart b) Control chart			Histogram
6.	In Total Quality Management (TQM), cust a) Lowering production costs b) Continuous improvement and employee c) Eliminating the need for inspections d) Faster production time			through:

7.	Which of these is a reason for poor quality in construction? a) Use of skilled labour b) Adhering to international standards c) Poor process design and lack of training d) Proper material testing					
8.	What is the primary focus of Quality Engineering? a) Managing customer complaints b) Improving design and process reliability c) Reducing worker wages d) Eliminating the need for inspections					
9.	What is a key benefit of implementing a Quality Management System (QMS)? a) Reduced need for raw materials b) Improved customer satisfaction and product reliability c) Eliminates competition d) Avoids the need for process documentation					
10.	The key purpose of ISO 9001 certification is to: a) Improve product pricing strategies b) Provide a framework for consistent quality management c) Eliminate all production defects d) Ensure 100% inspection of products					
11.	Who developed the "14 points for Management" to improve quality and productivity? a) Philip B. Crosby b) Joseph Juran c) W. Edwards Deming d) Kaoru Ishikawa					
12.	What does the Cost of Quality (COQ) concept focus on? a) The cost of hiring Quality Inspectors b) The total cost incurred to prevent detect and correct defective products c) The cost of raw materials in production d) The total wages paid to quality control staff					
13.	Which of the following is not a key principle of TQM? a) Customer focused approach b) Continuous improvement c) High defect tolerance d) Employee involvement					
14.	What is "Quality Function Deployment" (QFD) used for? a) Reducing production costs b) Translating customer requirements into products features c) Eliminating process inspections d) Increasing production speed.					
15.	Which of the following best describes Benchmarking? a) Comparing an organizations processes with the best industry practices b) Reducing employee salaries to lower costs c) Increasing production without considering quality d) Avoiding competition in the industry					
16.	Which of the following is not a principle of the ISO 9001 : 2015 standard? a) Customer focus b) Process approach c) Profit maximization d) Continuous improvement					

30.	In a normal distributi deviation if the mean						
	a) 50 %	b) 68 %	c)	90 %	d)	99 %	
31.	Which of the following is a major cause of errors in concre a) Inadequate curing				ity m	aterials	
32.				frequency of testing cement for fineness? b) Every 50 tonnes d) Once a year			
33.	Which is code provid a) IS 456	es guidelines for the a b) IS 4031		otance and rejection IS 269		ement? IS 383	
34.	The standard test for how many days.	determining the corb) 3, 7 and 28 days		**************************************			
35.	Which test is NOT co a) Sieve analysis c) Elongation index t	ommonly conducted or	n fin			4, 21 and 26 days	
36.	According to IS 383, is?	the maximum permis	sible	silt content in fine	aggr	egate for concrete	
	a) 2 %	b) 5%	c)	10 %	d)	15 %	
37.	As per IS 456 : 2000 be atleast						
	a) 10 MPa	b) 15 MPa	c)	20 MPa	d)	25 MPa	
38.	Which test is used to determine the workability of fresh concrete?						
	a) Compressive strenc) Soundness test	igth test		Slump test	ion to	and a	
	c) Soundhess test		4)	Løs Angeles abrasi	ion te	St	
39.	9. The frequency of testing cement for setting time in construction project should be					should be :	
	a) Once per 100 tonnec) Once per 10 tonne			Once per 50 tonnes			
	c) Once per 10 tolline	2 American	u)	Every batch receiv	/ed		
40.	Which of the following				ent b	ears?	
	a) Tensile strength tec) Impact test	est		Bend test Soundness test			
41.	At which stage of cor					issessed?	
	a) Conceptual designc) Detailed design	· ·		Preliminary design Construction			
	Acade						
42.	Which quality assessment test is used to measure the surface hardness of concrete?						
		elocity (USPV) Test			1	Γ 4	
	 c) Rebound Hammer 	1 CSU	a)	Compressive Strer	igth :	Lest	

17.	ISO 14000 is primarily focused on : a) Financial management c) Reducing employee turnover	b) Environmental management d) Increasing production speed				
18.	Which of the following is not a type of ben a) Internal Benchmarking c) Strategic Benchmarking	1				
19.	What type of waste does ISO 14000 aims to a) Material waste b) Time waste					
20.	What is an important element of performan a) Customer satisfaction surveys c) Financial analysis	ce evaluation in Quality Management? b) Employee feed back d) All of these				
21.	Which of the following NOT a measure of a) Mean b) Median	central tendency? c) Mode d) Standard deviation				
22.	What is the minimum number of speciments 456: 2000 a) 1 b) 2	c) 3 d) 5				
23.	Which of the following measure is used to a Mean b) Median	determine variability in data? c) Range d) Mode				
24.	What is the recommended cube size for compressive strength testing of concrete? a) 100 mm × 100 mm × 100 mm b) 150 mm × 150 mm × 150 mm c) 200 mm × 200 mm d) 50 mm × 50 mm					
25.	In sampling, a subset of data takes from a page a) Census b) Population					
26.	What is the main advantage of using Statistical Quality Control in construction? a) It reduces the number of workers needed b) It ensures complete elimination of defects c) It helps in monitoring and controlling quality using statistical methods d) It increases construction costs significantly					
27.	The acceptance criteria for concrete as per result should be less than a) Characteristic strength c) (Characteristic strength + 5 MPa)	b) (Characteristic strength – 3 MPa) d) (Characteristic strength – 5 MPa)				
28.	As per IS 456: 2000, concrete should be characteristic strength? a) 3 and 7 days b) 7 and 14 days	tested at how many days to determine its				
29.	What is the primary purpose of control chat a) To increase project costs b) To monitor variation in construction qua c) To eliminate all defects permanently d) To calculate the total cost of the project	s in Statistical Quality Control?				

43.	Which IS Code prov a) IS 456	ides guidelines for ND b) IS 516		concrete? IS 13311	d) IS 1786
44.		er Test gives unreliabl b) Smooth and flat			
45.	a) Compressive stre	Velocity (USPV) test ngth of concrete ogeneity of concrete	b)	Surface hardness	
46.	Which of the following a) Concrete density c) Reinforcement pr	ng factors affects USP esence	b)	st results? Surface moisture All of these	
47.	quality is classified a	indicates velocity be is: b) Good		n 3 km/sec and 3.5	5 km/sec, the concrete d) Doubtful
48.	At which stage const a) Conceptual desig c) Handover	ruction are the final qu	b)	checks and docum Detailed design Preliminary design	•
49.	What is the minimum a) 3 days	n recommended age of b) 7 days		crete for conducting 14 days	g USPV test? d) 28 days
50.	According to IS 133 held during testing? a) 30°	11, what is the standar	d an	gle at which a rebo	und hammer should be