GBCS SCHEME

21CV584

USN

8.

requirements will be fulfilled.

a) Quality

Question Paper Version: A

Fifth Semester B.E. Degree Examination, June/July 2024

Quality Control and Quality Assurance

Time: 1 hr.]

[Max. Marks: 50

INSTRUCTIONS TO THE CANDIDATES					
1.	Answer all the fifty questions, each ques	tion carries one mark.			
2.	Use only Black ball point pen for writing / darkening the circles.				
3.	For each question, after selecting your answer, darken the appropriate circle				
	corresponding to the same question number on the OMR sheet.				
4.	Darkening two circles for the same quest	ion makes the answer invalid.			
5.	Damaging/overwriting, using whiter	ers on the OMR sheets are strictly			
	prohibited.				
1.	Finding ways to do better than standard and performance is called a) Quality planning c) Quality inspection	b) Quality Improvement d) Quality Assurance			
2.	What should the company focus on to achie a) Appraisal cost c) External failure cost				
3.	Select which one is not an external failure c				
4.	a) Testing b) Helpline support  PDCA cycle stands for a) Plan – Define – Check – Act c) Prepare – Do – Correct – Act	c) Warranty work d) Complaint resolution b) Prepare – Define – Correct – Act d) Plan – Do – Check – Act			
5.	Quality is "Fitness of purpose or use" stated a) Juran b) Crossby	by c) W. Edward d) IBM			
6.	The following quality guru is associated wit a) Imai b) Taguchi	h the cost of non-confirmance. c) Feigenbaum d) Ishikawa			
7.	QIP stands for a) Quality Improvement Program c) Quality Import Procedure	b) Quality Imparts Process d) None of these			

is a part of quality management focused on providing confidence that quality

b) Quality assurance c) Quality updating d) Quality management

9.	Identify the benefits of quality.  a) Gives positive company image  b) Increases market share, transfer into improved profit  c) Creates an atmosphere for high employee morale, which improves productivity			
	d) All the above	000	4	
10.	Performance of a product is a) How long the product lasts b) Whether the product is capable of doing to c) How easy it is to repair the product d) How often the product fails.	the intended job		
11.	are quality management and quality	ty assurance standards.		
	a) ISO 22000 b) ISO 14000	c) ISO 9000	d) None of these	
12.	Who is known as father of TQM? a) Edward Deming b) Joseph Juran	c) Philip Crossby	d) Kaorn Ishikawa	
13.	The pillar of TQM which recognizes that praise a) Customer focus c) Employee Empowerment	b) Process manageme d) Continuous Improv	nt	
14.	The aspiration of the company in a short du a) Vision Statement c) Quality policy statement	ration is called b) Mission statement d) Submission statement	ent	
15.	The quality policy is approved by a) Quality Improvement Team c) Quality Control Team	b) Quality Council d) Quality Assurance	Team	
16.	The latest version of ISO 9001 in ISO 900	family		
	a) ISO 9001 : 2000 b) ISO 9001 : 2022	c) ISO 9001:2015	d) ISO 9001:2008	
17.	ISO 14000 standards are for a) Administration c) Quality Management System	b) Environment Mana d) Supply Chain Syst		
18.	Benchmarking is not a	Ass.		
	<ul><li>a) Systematic search for best practices</li><li>b) Systematic search for initiating competit</li><li>c) Systematic search for innovative ideas</li><li>d) Systematic search for highly effective op</li></ul>	,		
19.	Direct comparison with competitor is done a) Internal benchmarking c) Functional benchmarking	with the following form b) Competitive bench d) Generic benchmark	marking	
20.	One of the following is not a quality m ISO: 2015 and ISO 9001: 2015 are based a) Customer focus c) Customer dissatisfaction			

21.	One among the following is not a advantage of statistical quality control a) Increase in cost b) Improves consistency				
	c) Defect identification and correction	d) Improves decision r			
22.	The most common measures of central tend a) Mode b) Median	encies c) Mean	d) All of these		
23.	The mean of the range of tested values 5, 1 a) 6 b) 6.375	0, 3, 6, 4, 8, 9, 6 will be c) 5.375	d) 10		
24.	As per IS 456-2000, the number of samples a) 2 samples b) 4 samples	needed for 16-30 m <sup>3</sup> of c) 3 samples	concrete is d) 6 samples		
25.	Number of samples needed for 180 m <sup>3</sup> of co a) 7 samples b) 6 samples	oncrete as per IS 456-20 c) 8 samples	00 recommendation is d) 4 samples		
26.	days strength shall alone be the criter a) 7 days b) 14 days	ria for acceptance or reje c) 21 days	ection of concrete d) 28 days		
27.	As per IS 456-2000, the individual variation percent of the average a) +10 b) +15	on of strength should no	d) +12		
28.	Along with 3 specimens for each sample for for days strength checking.  a) 3 days  b) 14 days	r testing, additional spec	eimen may be required d) 21 days		
29.	Which among the following characteristic of is acceptable for M-20 and above grade overlapping consecutive test results in N/mr a) >/= fck + 0.85 × established standard dev b) fck + 2 N/mm <sup>2</sup> c) >/= fck + 1.2 × established standard deviated) fck + 5 N/mm <sup>2</sup>	concrete for mean of m <sup>2</sup> (IS 456-2000)			
30.	Standard deviation to be assumed for M-25 compressive strength as per IS 456-2000 is a) 3.5 b) 4.0	grade concrete for cal c) 5.0	culating characteristic d) 4.5		
31.	Adding water more than required water cema) Increased strength gain c) Reduced workability	nent ratio of design mix b) Reduced slump d) Reduced strength ga			
32.	Separation of water from fresh finished cone a) segregation b) Bleeding	crete surface is called c) Bailing	d) Separation		
33.	Improper consolidation or compaction of co a) Bug holes b) Honey combing		d) All of these		

34.	Use of extra cement a) Craze and Flake o	to surface finish of corff b) Late setting	ncrete work leads to c) Segregation	d) Rough finish		
35.	5. As per IS 269-1975, initial setting time of ordinary cement is					
55.	a) 15 minutes	b) 60 minutes	c) 30 minutes	d) 600 minutes		
36.	Cement has to be tes	ted within maximum c	period since th	e receipt of samples of		
	testing is made		1	4		
	a) 1 week	b) 3 months	c) 6 months	d) 15 days		
37.	IS 383 – 2016 is for					
- 7.0		ggregate for concrete -	specification			
	b) 43 grade cement -	specification				
	c) Code of practice for					
	d) Steel - specification	on	X.			
38.	If compressive streng	gth test is done on indi	vidual bricks, then the	minimum value should		
	not fall below	percent of upper limit	of class of brick.			
	a) 12%	b) 10	c) 15	d) 20		
39.	Permissible number	of defective bricks for	r efflorescence test of l	oricks for a lot size of		
	2001 to 10000 bricks	s should be	of the concentration of the content	offices for a for size of		
	a) 1	b) 0	c) 2	d) 3		
40.	Test to be conducted	on stoollhous and rains				
40.	a) Tensile test	b) Bend test	s used in concrete reinfo c) Rebend test	d) All of these		
				<b>A</b>		
41.	Minimum distance of point of impact from edge or shape discontinuity by Rebound					
	hammer testing procedure should be					
	a) 2011111	b) 30mm	c) 10mm	d) 50mm		
42.	The best practice of o	quality control in const				
	a) Inspect workmans	hip	b) Document inspection findings			
	c) Corrective action		d) All of these			
43.	Common NDT tests	done at site does not in	clude one among these			
	a) Core test		b) Schmidt hammer te	st		
	c) USPV test		d) Compression test			
44.	The concrete quality	grading for a pulse ve	elocity of 3.5 to 4.5 km	/sec by cross probing		
	will be			of closs proofing		
	a) Good	b) Excellent	c) Doubtful	d) Medium		
45.	Process of evaluating	g a building to be ready	for service is called			
	a) Handover	b) Commissioning	c) Checking	d) Evaluating		
10	T 114			,		
46.	a) Yield strength	Ultrasonic testing is done on materials to determine				
	c) Ultimate tensile str	rength	b) Hardness d) Cracks below the su	rface		
	,		a) Clacks ociow the st	11400		

						21C V 304
47.	Probable accuracy percent of c	of prediction of co		y rebound	hammer	test will be
	$a) \pm 25\%$	b) ± 10%	c) ± 5%	7	d) ± 30%	
48.	Influential factors of a) Type of cement a c) Age of concrete		test numbers depe b) Surface co d) All of the	ondition		
49.	In USPV test, the espercent. a) 20	stimated strength o	f concrete may var	y from act	ual streng d) 15	th by
50.	USPV test method i (i) Homogeneity o (ii) Presence of crac (iii) Value of dynam (iv) Quality of conc a) Only (i) and (ii) c) All (i), (ii), (iii) a	f concrete cks, voids nic elastic modulus crete in relation to s				
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			Soiothing.			
4	A P	58-107/4				
			-A5-			