		nge:-04 Subject Code:- E Roll. No:	Subject Code:- BMCA0314	
		Kon. No.		
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1	(OID)	(An Autonomous Institute Affiliated to AKTU	•	
		MCA	,,	
		SEM: III - THEORY EXAMINATION (2024	4 - 2025)	
		Subject: Advance Software Testing		
		Hours	Max. Marks: 100	
		nstructions: fy that you have received the question paper with the cor	ract coursa coda branch atc	
		uestion paper comprises of three Sections -A, B, & C. It c		
		(MCQ's) & Subjective type questions.		
_		um marks for each question are indicated on right -hand	side of each question.	
		te your answers with neat sketches wherever necessary.		
		e suitable data if necessary.		
		bly, write the answers in sequential order.	al acceptance to a	
		et should be left blank. Any written material after a blank /checked.	sneet will not be	
Cvaina	iica, ci	checked.		
SECTION-A		20		
	•	t all parts:-		
1-a.			CO1, K1) 1	
	(a)			
	(b)			
	(c)			
	(d)	Analyzing requirements		
1-b.	Tl	The goal of Requirement Analysis phase is	. (CO1, K1)	
	(a)	To design test cases		
	(b)	To understand software requirements		
	(c)	To execute test cases		
	(d)	To close defects		
1-c.	Tl	The primary purpose of a Risk Assessment Matrix in Ris	k-Based Testing. (CO2,	
	K	K2)		
	(a)	Identify defects		
	(b)) Prioritize risks		
	(c)	Execute test cases		
	(d)) Document test results		
1-d.		During which phase does a Test Analyst collaborate with understand technical risks? (CO2, K2)	the development team to 1	
	(a)	Requirement Analysis		

	(b)	Test Planning				
	(c)	Test Execution				
	(d)					
1-e.		rimary goal of functional testing in black box testing is CO3, K1)				
	(a)	Testing the code's internal structure				
	(b)	Verifying the functionality of the software				
	(c)	Measuring the performance of the system				
	(d)	Identifying security vulnerabilities				
1-f.	Exploratory testing in black box testing is (CO3, K2)					
	(a)	(a) Testing without predefined test cases				
	(b)					
	(c)	e) Testing with the help of a detailed test plan				
	(d)) Testing based on historical data				
1-g.	T _	he primary goal of software testing in terms of quality characteristics are (CO4, K2)				
	(a)	Enhancing performance				
	(b)					
	(c)	Detecting defects				
	(d)	d) Improving user experience				
1-h.		The term "scalability" refer to in software quality characteristics are (CO4, K1)				
	(a)	The software's ability to perform well under varying conditions				
	(b)	The software's ability to handle a growing amount of work				
	(c)	The software's ease of use				
	(d)	(d) The software's ability to recover from failures				
1-i.	Ir	a review process, who typically leads a walkthrough? (CO5, K1)]			
	(a)	Project manager				
	(b)	Tester				
	(c)	Author of the document being reviewed				
	(d)	Team lead				
1-j.	T	he purpose of a review report in software testing (CO5, K2)				
	(a)	To provide a summary of the review findings				
	(b)	To document test cases				
	(c)	To evaluate a work product				
	(d)	To lead the review meeting				
2. Att	tempt	all parts:-				
2.a.	D	refine the term Test Case Development. (CO1, K1)				

2.b.	Explain the term impact in Software Testing. (CO2, K2)	2
2.c.	Differentiate between Functional testing and non functional testing. (CO3, K2)	2
2.d.	Define the term Business Domain Testing . (CO4, K2)	2
2.e.	Explain User story review. (CO5, K2)	2
SECTI	ION-B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Describe the charactristics of STLC. (CO1, K1)	6
3-b.	Describe Equivalence Class Testing with an example. (CO1, K1)	6
3-c.	Discuss different types of Risks in software testing. (CO2, K2)	6
3-d.	Explain the term People Risk and Organizational Risk in risk based testing. (CO2, K2)	6
3.e.	Explain statement based and decision based testing with example. (CO3, K2)	6
3.f.	Describe why Functional correctness testing is an important part of the software development process. (CO4, K2)	6
3.g.	Explain some examples of items that can be included on a checklist for software reviews. (CO5, K2)	6
SECTI	ION-C	50
4. Ansv	wer any <u>one</u> of the following:-	
4-a.	Discuss the term: (CO1, K2) (i)Test Planning (ii) Test Environment Setup (iii) Low level test cases (iv) High level test cases	10
4-b.	Differenciate between State transition testing and Equivalence Partitioning with example. (CO1, K2)	10
5. Ansv	wer any <u>one</u> of the following:-	
5-a.	Explain the term in risk based testing: (CO2, K2) (i) Brainstorming (ii) SWOT Analysis (iii) Risk Assessment (iv) Risk Mitigation	10
5-b.	Explain the term Coverage based Test Case Prioritization and Risk based Prioritization. (CO2, K2)	10
6. Ansv	wer any one of the following:-	
6-a.	Explain the following: (CO3, K2) (i) Equivalence Partitioning Testing (ii) boundary value analysis (iii) Decision Table Testing	10
6-b.	Discuss different types of testing strategies for software testing in detail. (CO3, K2)	10

7. Answ	er any <u>one</u> of the following:-	
7-a.	Define the following software quality characteristics: (CO4, K2) (i) Efficiency (ii) Completeness (iii) Portability (iv) Accuracy	10
7-b.	Define the following: (CO4, K2) (i) Interoperability testing (ii) Portability testing (iii) Business Domain testing	10
8. Answ	er any <u>one</u> of the following:-	
8-a.	Elaborate how Automated test execution tools can be a valuable asset for any testing team? (CO5, K2)	10
8-b.	Explain the following: (CO5, K2) (i) Validation Review (ii) User Story Reviews (iii) Checklist Reviews	10

