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		MCA (Integrate		110,	Luck	LIIOV	<i>~)</i>				
		SEM: V - THEORY EXAMINAT		2024	- 202	25)					
		Subject: Software Testing an	nd App	licatio	ons						
		Hours						Max	i. M	larks	: 100
		structions:	الماء الماء .		4		~ ~ ~		1	1.	a 4 a
		ly that you have received the question paper westion paper comprises of three Sections -A, .									<i>?1C</i> .
		(MCQ's) & Subjective type questions.	Δ, α ε.	i ii co	<i>r</i> ww.	<i>3 0</i> j	111111	upic	Cn	oice	
		m marks for each question are indicated on i	right -h	and s	ide o	f ea	ch q	uesti	ion.		
		e your answers with neat sketches wherever t	necessa	ıry.							
		suitable data if necessary.									
-		bly, write the answers in sequential order.	ftan a b	lank.	ala a at	:1	1	. b .a			
		t should be left blank. Any written material a checked.	jier a v	iank s	sneet	wii	i noi	be			
cvaina	iica/ci	encencu.									
SECT	ION-	V-A									20
1. Atte	empt a	all parts:-				1					
1-a.	U	UML is used for (CO1,K1))					1
	(a)	design									
	(b)	testing									
	(c)	implementation									
	(d)	None of the above									
1-b.	In	n which phase of the Software Development	Life C	ycle (SDL	C) (does	testi	ng		1
		pegin?(CO1,K1)									
	(a)	Requirement analysis phase									
	(b)	Design phase									
	(c)	Coding phase									
	(d)	Testing phase									
1-c.	I	In which environment we can performed the	Beta te	sting	?(CO	2,K	(5)				1
	(a)	User's end									
	(b)	Developer's end									
	(c)	User's and developer's end									
	(d)	None of the above									
1-d.	A	Agile software develpoment is based on which	h of the	e follo	owing	g ty	pe (CO2,	,K5)	1
	(a)	iterative development									
	(b)	incremental development									

	(c)	iterative and incremental development	
	(d)	None of the above	
1-e.	W	which are benefits of static testing? (CO3,K3)	1
	(a)	Early feedback of a quality	
	(b)	Less rework cost	
	(c)	Increased developmental productivity	
	(d)	All of the above	
1-f.	E	ntry criteria is determined during which phase? (CO3,K3)	1
	(a)	Planning	
	(b)	Kick of	
	(c)	Preparation	
	(d)	Review meeting	
1-g.	В	oundary value analysis belong to? (CO4,K4)	1
	(a)	White Box Testing	
	(b)	Black box testing	
	(c)	White Box & Black Box Testing	
	(d)	None of the mentioned	
1-h.	W	Which of the following is White box testing technique? (CO4,K4)	1
	(a)	equivalence partitioning	
	(b)	Boundary value analysis	
	(c)	statement coverage	
	(d)	None of the mentioned	
1-i.	T	he purpose of a test closure report is to: (CO5,K5)	1
	(a)	Document test execution results	
	(b)	Track defects	
	(c)	Identify test risks	
	(d)	Summarize the testing activities and results	
1-j.	T	est management tools are used to: (CO5,K5)	1
	(a)	Execute test cases	
	(b)	Track defects	
	(c)	Analyze test results	
	(d)	Support test planning and control activities	
2. Att	empt a	all parts:-	
2.a.	E	xplain why testing is necessary? (CO1,K1)	2
2.b.	D	ifferentiate between Integration Testing and System Testing. (CO2,K5)	2
2.c.	D	escribe the Characteristics of Dynamic Testing. (CO3,K3)	2
2.d.	E	xplain Decision Table Testing. (CO4,K4)	2

2.e.	Describe the factors that affecting the Test Effort in Software Testing. (CO5,K5)	2
SECTIO	<u>ON-B</u>	30
3. Answe	er any <u>five</u> of the following:-	
3-a.	Explain the importance of software testing. (CO1,K1)	6
3-b.	Write test case on Registration Page. (CO1,K1)	6
3-c.	Explain the following: (i) Why Unit testing is important? Explain the concept of unit testing in detail.(ii) Justify the importance of testing process. (CO2,K5)	6
3-d.	Define software testing. Explain various level of testing. (CO2,K5)	6
3.e.	Explain Different Individual Review Techniques. (CO3,K3)	6
3.f.	Explain state and branch coverage testing with an example. (CO4,K4)	6
3.g.	Describe the Specialized positions in Test Organization. (CO5,K5)	6
SECTIO	<u>ON-C</u>	50
4. Answe	er any <u>one</u> of the following:-	
4-a.	What is the role of performance testing in software development? (CO1,K1)	10
4-b.	What is the difference between smoke testing and sanity testing? (CO1,K1)	10
5. Answe	er any <u>one</u> of the following:-	
5-a.	Define the following: (i) System testing (ii) Acceptance Testing (iii) Functional Testing (CO2,K5)	10
5-b.	Explain the concept of stress testing and how it helps ensure system stability. (CO2,K5)	10
6. Answe	er any <u>one</u> of the following:-	
6-a.	What is a test script, and how is it used in automated testing? (CO3,K3)	10
6-b.	What are the advantages and disadvantages of automated testing over manual testing? (CO3,K3)	10
7. Answe	er any <u>one</u> of the following:-	
7-a.	Expalain benefits of Checklist-based testing techniques with an example. (CO4,K4)	10
7-b.	What is data-driven testing, and when should it be used? (CO4,K4)	10
8. Answe	er any <u>one</u> of the following:-	
8-a.	What is equivalence partitioning, and how does it help reduce test cases? (CO5,K5)	10
8-b.	What is exploratory testing, and how is it different from scripted testing? (CO5.K5)	10