Printed Page:- 03			Subject Code:- BMCA0214									
			Roll. No:	11		<u> </u>	1	1 1				
N	OID	A INSTITUTE OF ENGINEERING A							TER	NC)IDA	_
(An Autonomous Institute Affiliated to AKTU, Lucknow)												
MCA SEM: II - THEORY EXAMINATION (2023 - 2024)												
Subject: Software Testing												
Time: 3 Hours Max. Marks: 100												
Gener	al Ins	tructions:										
	•	y that you have received the question p	-									
		stion paper comprises of three Section	ıs -A, B, &	c C.	It c	onsis	ts c	of M	ultip	le C	hoice	e
_		MCQ's) & Subjective type questions. m marks for each question are indicate	d on right	ho	nd c	ida o	f or	och (nnact	ion		
		your answers with neat sketches when	_			ide o	1 66	icii (quest	1011.		
		suitable data if necessary.		0000								
5. Pre	ferabl	y, write the answers in sequential orde	er.									
		should be left blank. Any written mate	erial after	a b	lank	sheet	t wi	ill no	ot be			
evalua	ited/cl	hecked.										
SECT	ION	A										20
												20
	-	all parts:-										
1-a.	U	ML is used for (CO1)										1
	(a)	design	1									
	(b)	testing										
	(c)	implementation										
	(d)	None of the above										
1-b.	W	Which of the following is not a testing p	phase?	(C	CO1))						1
	(a)	Test Planning										
	(b)	Test Design										
	(c)	Test Closure										
	(d)	Test Development										
1-c.	L	evel of testing means (CO2)										1
	(a)	system testing										
	(b)	Unit testing										
	(c)	Integration testing										
	(d)	All of the mentioned										
1-d.	F	unctional testing is a (CO2))									1
	(a)	Test design technique										
	(b)	Test level										
	(c)	SDLC Model										

	(d)	Test type				
1-e.		Which are benefits of static testing? (CO3)				
	(a)	Early feedback of a quality				
	(b)	Less rework cost				
	(c)	Increased developmental productivity				
	(d)	All of the above				
1-f.	W	Which is a formal review technique? (CO3)	1			
	(a)	Walk through				
	(b)	peer to peer review				
	(c)	Inspection				
	(d)	All of the above				
1-g.	I	Locating or identifying the bugs is known as (CO4)	1			
	(a)	Design				
	(b)	Testing				
	(c)	Debugging				
	(d)	Coding				
1-h.	V	White Box testing is also known as (CO4)	1			
	(a)	closed box				
	(b)	structural testing				
	(c)	Gray box testing				
	(d)	None of the mentioned				
1-i.	V	Which of the following is not a primary objective of test management? (CO5)	1			
	(a)	Planning test activities				
	(b)	Executing test cases				
	(c)	Monitoring test progress				
	(d)	Defect management				
1-j.	T	est estimation techniques are used to (CO5)	1			
	(a)	Determine the number of test cases				
	(b)	Define the testing schedule				
	(c)	Allocate resources for testing				
	(d)	All of the above				
2. Att	empt a	all parts:-				
2.a.	E	xplain bugs and defects. (CO1)	2			
2.b.	D	pefine waterfall model. (CO2)	2			
2.c.	D	befine the Term Static Testing. (CO3)	2			
2.d.	E	xplain the various testing activities. (CO4)	2			
2.e.	D	befine the term Test Organization. (CO5)	2			

<u>SECTIO</u>	<u>IN-В</u>	30		
3. Answe	er any <u>five</u> of the following:-			
3-a.	Differentiate between pesticide paradox and defects clustering. (CO1)	6		
3-b.	Discuss the psychology of a developer and a tester. (CO1)	6		
3-c.	Explain the main advantages of incremental model? (CO2)	6		
3-d.	Explain the meaning of entry and exit criteria mean in a project. (CO2)	6		
3.e.	Describe Roles in Review. (CO3)	6		
3.f.	Explain statement and path testing in detail. (CO4)	6		
3.g.	Describe the Process of Configuration Management. (CO5)	6		
SECTIO	N-C	50		
4. Answe	er any <u>one</u> of the following:-			
4-a.	Discuss how human psychology affects software testing and compare the typical mindsets of testers and developers. (CO1)	10		
4-b.	Differentiate between testing and debugging. Why are both activities necessary in the software development lifecycle? (CO1)			
5. Answe	er any <u>one</u> of the following:-			
5-a.	Define the following: (i) Security Testing (ii) Load Testing (iii) Reliability testing. (CO2)			
5-b.	Define the following: (i) Retesting Testing (ii) Accountability Testing (iii) Recovery testing. (CO2)			
6. Answe	er any <u>one</u> of the following:-			
6-a.	Define the following: (i)Static Testing (ii) Dynamic Testing (iii) Review. (CO3)	10		
6-b.	Define the following: (i) Ad Hoc Review (ii) Checklist based. (CO3)	10		
7. Answe	er any <u>one</u> of the following:-			
7-a.	Explain benefits of Checklist-based testing techniques with an example. (CO4)	10		
7-b.	Discuss different techniques of Black Box Testing Techniques. (CO4)	10		
8. Answe	er any one of the following:-			
8-a.	Define the following: (i)Process Metrices (ii)Project Metrices (iii)Product Metrices. (CO5)			
8-b.	Explain the purpose of test monitoring and control and describe the metrics commonly used in this process. (CO5)	10		