Printed Page:- 03		Subject Code:- BMCA0214
	I	Roll. No:
	NOIDA INSTITUTE OF ENGINEERING AN	
	(An Autonomous Institute Affi MCA	
	SEM: II - THEORY EXAM	
	Subject: Softwa	· · · · · · · · · · · · · · · · · · ·
	: 3 Hours	Max. Marks: 100
	ll Instructions:	All the comment comments and below the sta
	Verify that you have received the question paper wi Question paper comprises of three Sections -A, B	
	s) & Subjective type questions.	, a c. it consists of Multiple Choice Questions
	imum marks for each question are indicated on rig	ht -hand side of each question.
	trate your answers with neat sketches wherever ne	cessary.
	ume suitable data if necessary.	
	erably, write the answers in sequential order. heet should be left blank. Any written material afte	er a blank sheet will not be evaluated/checked
0.110 5	meet should be left blank. This written material are	of a blank sheet will not be evaluated elected.
	SECTION A	20
		10
1. Atter	mpt all parts:-	
1-a.	What does STLC stand for? (CO1)	1
	(a) Software Testing Life Cycle	1 202
	(b) Software Test Logic Cycle	
	(c) Software Testing Lifecycle	.1
	(d) Software Test Language Cycle	
1-b.	Which of the below is not a part of the Test Pl	an? (CO1)
	(a) Schedule	
	(b) Risk	
	(c) Incident reports	
	(d) Entry and exit criteria	
1-c.	Functional testing is a (CO2)	1
	(a) Test design technique	
	, , <u> </u>	
	` '	
1-d.	••	$type^{2}$ (CO2)
	<u> </u>	7, ()
	• •	
	_	
1-e.	· ·	atic testing techniques? (CO3)
1-d. 1-e.	 (b) Test level (c) SDLC Model (d) Test type Which of the following is not part of the Test (a) Function testing (b) System testing (c) Statement testing (d) Database testing Which of the following can be found using states 	

3. Ans	wer a	ny <u>five</u> of the following:-	
		SECTION B	30
2.e.	Ι	Describe the Benefits of Independent Testing. (CO5)	2
2.d.	Ι	Define White Box Testing. (CO4)	2
2.c.	Ι	Define the term Review. (CO3)	2
2.b.	Ι	Discuss the reasons for the Failure of Water Fall Model. (CO2)	2
2.a.	Ι	Define Debugging. (CO1)	2
2. Atte	empt a	ıll parts:-	
			10
	(d)	Optimize the order of test execution	
	(c)	Allocate resources for testing	
	(b)	Identify defects	
J	(a)	Determine the number of test cases	
1-j.		Test prioritization is used to (CO5)	1
	(d)	Summarize the testing activities and results	
	(c)	Document test execution results Track defects Identify test risks Summarize the testing activities and results	
	(a) (b)	Track defects	
1-1.	(a)	Document test execution results	1
1-i.	, ,	The magness of a test elegane moment is to (CO5)	1
	(c) (d)	Green box testing	
	(b)	Black box testing Yellow box testing	
	(a)	White box testing	
1-h.		Fransparent Testing is also known as (CO4)	1
1 1	(d)	None of the mentioned	4
	(c)	Gray box testing None of the mentioned	
	(b)	structural testing	
	(a)	closed box	
1-g.		White Box testing is also known as (CO4)	1
	(d)	Computation testing	
	(c)	Parameter testing	
	(b)	Static testing	
	(a)	Dynamic testing	
	(CO3)	
1-f.	Т	To check whether coding standards are followed, which type of testing will be beneficial?	1
	(d)	Both Defect and Failure	
	(c)	Bug	
	(b)	Failure	
	(a)	Defect	

3-a.	Explain why a developer and tester mindset should be different? (CO1)	6
3-b.	Describe the term Test Reporting. (CO1)	6
3-c.	Define the difference between User Acceptance Testing and System testing. (CO2)	6
3-d.	Define the difference between Alpha testing and beta testing. (CO2)	6
3.e.	Explain Different Individual Review Techniques. (CO3)	6
3.f.	Explain statement and decision testing in detail. (CO4)	6
3.g.	Describe the Various Stages of Defect Management Process. (CO5)	6
		50
	SECTION C	50
		10
4. Answ	er any <u>one</u> of the following:-	
4-a.	Differentiate between testing and debugging. Why are both activities necessary in the software development lifecycle? (CO1)	10
4-b.	Define errors, defects, and failures in the context of software testing. Provide examples of each. (CO1)	10
		10
5. Answ	er any <u>one</u> of the following:-	
5-a.	Differentiate between Prototype Model and Waterfall Model. (CO2)	10
5-b.	Define the following: (i) Unit Testing (ii) Integration Testing (iii) System testing (CO2)	10
		10
6. Answ	er any <u>one</u> of the following:-	
6-a.	Describe the Success Factors of Reviewers. (CO3)	10
6-b.	Describe the roles and responsibilities of participants in a formal review? (CO3)	10
		10
7. Answ	er any <u>one</u> of the following:-	
7-a.	Differentiate state transition Testing and Decision table Testing in detail. (CO4)	10
7-b.	Explain boundary value analysis and why is it important in testing? Illustrate with an example. (CO4)	10
		10
	er any <u>one</u> of the following:-	
8-a.	Discuss various test estimation techniques and their application in planning test activities. (CO5)	10
8-h	Explain the concept of independent testing and its advantages and disadvantages (CO5)	10