Printed Pag	age:- Subject Co Roll. No:	ode:- BMCA0214
NOID	DA INSTITUTE OF ENGINEERING AND TECH (An Autonomous Institute Affiliated to A MCA	
	SEM: II - THEORY EXAMINATION	· ·
Time: 3 I	Subject: Software Testin	Max. Marks: 100
	nstructions:	Max. Marks. 100
	ify that you have received the question paper with t	the correct course, code, branch etc.
	uestion paper comprises of three Sections -A, B, &	
_	s (MCQ's) & Subjective type questions.	
	um marks for each question are indicated on right -	
	te your answers with neat sketches wherever necess e suitable data if necessary.	sary.
	bly, write the answers in sequential order.	
	et should be left blank. Any written material after a	blank sheet will not be
evaluated/c	/checked.	
<b>SECTION</b>	<u>N-A</u>	20
1. Attempt	ot all parts:-	-01-
	A set of activities that ensure that software correct function.(CO1,K1)	ly implements a specific 1
(a)	) verification	
(b)	) testing	
(c)	) implementation	
(d)	) validation	
1-b	leads to failure.(CO1,K1)	1
(a)	) defects	
(b)	) bugs	
(c)	) faults	
(d)	All of the above	
1-c. U	Unit testing is done by(CO2,K1)	1
(a)	) User	
(b)	) Developer	
(c)	) Tester	
(d)	None of the above	
1-d. I	In the context of SDLC models ,Sprint is a	(CO2,K1)
(a)		
(b)	-	

	(c)	System testing	
	(d)	A milestone in the V Model	
1-e.	D	Ouring review meeting, defects are logged by(CO3,K1)	1
	(a)	Author	
	(b)	Moderator	
	(c)	Both Author and Scribe	
	(d)	Scribe	
1-f.	In	dynamic testing, the purpose of executing test cases is(CO3,K1)	1
	(a)	To verify that the software functions correctly	
	(b)	To review the code for adherence to standards	
	(c)	To analyze the software without running it	
	(d)	To check the software documentation	
1-g.		is not a type of Black Box Testing.(CO4,K1)	1
	(a)	Statement coverage	
	(b)	Decision table testing	
	(c)	Boundary value analysis	
	(d)	State transition testing	
1-h.	E	xhaustive testing is(CO4,K1)	1
	(a)	always possible	
	(b)	practically possible	
	(c)	impractical but possible	
	(d)	impractical and impossible	
1-i.	R	isk-based testing is primarily focused on:(CO5,K1)	1
	(a)	Testing high-risk areas first	
	(b)	Executing test cases based on priority	
	(c)	Maximizing test coverage	
	(d)	Documenting defects	
1-j.	T	est case management involves(CO5,K1)	1
	(a)	Allocating resources for testing	
	(b)	Defining test objectives	
	(c)	Creating and organizing test cases	
	(d)	Analyzing test results	
2. Att	empt a	all parts:-	
2.a.	E	xplain pesticide paradox in software testing.(CO1,K2)	2
2.b.	$\mathbf{N}$	Mention different phases in Waterfall Model with diagram.(CO2,K2)	2
2.c.	D	Define the term Walkthrough.(CO3,K1)	2
2.d.	D	Define Boundary value analysis in black box testing.(CO4,K1)	

2.e.	List out the disadvantages of independent Testing.(CO5,K1)	2
<b>SECTI</b>	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Differentiate between testing and debugging with suitable examples.(CO1,K4)	6
3-b.	Discuss the concepts of errors, defects, and failures in software systems with example.(CO1,K2)	6
3-c.	Illustrate Water fall Model. Explain the problems that are sometimes encountered when the waterfall model is applied?(CO2,K2)	6
3-d.	Discuss the different approaches for integration testing.(CO2,K2)	6
3.e.	Differentiate between Static testing and Dynamic Testing.(CO3,K4)	6
3.f.	Explain Checklist-based testing in detail.(CO4,K2)	6
3.g.	Discuss the term Project Metrices in detail.(CO5,K2)	6
<b>SECTI</b>	<u>ON-C</u>	50
4. Ansv	ver any <u>one</u> of the following:-	
4-a.	Discuss the importance of traceability in software testing and how a traceability matrix is used to achieve it. Why is it important to maintain traceability between test basis and test work products?(CO1,K2)	10
4-b.	Discuss the psychology of testing. How do the tester's and developer's mindsets differ, and why is this difference important?(CO1,K2)	10
5. Ansv	ver any <u>one</u> of the following:-	
5-a.	Define the following:(CO2,K1) (i) Regression testing (ii) Efficiency Testing (iii) Recovery testing.	10
5-b.	Differentiate between Prototype Model and Agile Model with clear diagram.(CO2,K4)	10
6. Ansv	ver any one of the following:-	
6-a.	Compare and contrast static testing and dynamic testing.(CO3,K4)	10
6-b.	Describe the different types of reviews in static testing in detail.(CO3,K1)	10
7. Ansv	ver any <u>one</u> of the following:-	
7-a.	Differentiate between black box and white box testing in detail.(CO4,K4)	10
7-b.	Discuss Cause Effect Graph with an example.(CO4,K2)	10
8. Ansv	ver any <u>one</u> of the following:-	
8-a.	Define the following:(CO5,K2) (i)Test Manager (ii)Test Effort (iii)Test Estimation .	10
8-b.	Define configuration management, and explain its components such as version control, change tracking, and baseline management. Describe how it supports testing activities.(CO5,K2)	10