

Time: 3 hrs.

## Eighth Semester B.E. Degree Examination, Aug./Sept.2020 **Software Testing**

Max. Marks:100

Note: Answer any FIVE full questions, selecting

(A)	MILORE		Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.	
50, will be treated as malpractice.			PART – A	
ıalpra			Define Error, Fault, Failure, Incident, Test and Test case. Explain testing life of	cycle, with
as II	1	a.		(10 Maiks)
ated		b.	Explain the triangle problem statement along with flowchart for traditional implen	nentation.
e tre		5 8		(10 Marks)
page /ill b	_		With example, explain Boundary value analysis and mention its limitation.	(04 Marks)
80, v	2	a. b.	Write equivalence class test cases for triangle problem.	(10 Marks)
18 DI 8 = 5		c.	Explain about,	
amır 42+3		•	(i) Weak Normal Equivalence class Test cases.	
rem eg,			(ii) Strong Normal Equivalence class Test cases.	(06 Marks)
the			(iii) Strong Robust Equivalence class Test cases.	(00 1141113)
S WI	•	_	Explain about test coverage matrices.	(08 Marks)
ition	3	a. b.	Explain McCabe's basis path method.	(04 Marks)
edna		c.	Explain about	
nal (			(i) du-Path Test coverage matrices with data flow diagrams.	(08 Marks)
and:			(ii) Slice-Based Testing.	(00 Marks)
On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. Any revealing of identification, appeal to evaluator and /or equations written eg, $42+8=50$ , will be	4		Explain traditional view of testing levels.	(06 Marks)
y dr evalı	4	a. b.	Explain about	
sori I to		0.	(i) Top down integration	
npul			(ii) Bottom up integration	(08 Marks)
, cor n, a		c.	Explain about Path Based Integration.	(06 Marks)
wers		14	PART-B CMRIT LIBRARY	
ans antifi		6	BANGALURE	
your fide	5	a.	Define the terms:  (i) Threads (ii) Events (iii) Data (iv) Actions (v) Devices	(10 Marks)
ting ng o		l.	(i) Threads (ii) Events (iii) Data (iv) Actions (v) Devices  Explain System Testing Guidelines.	(06 Marks)
nplei veali		b. c.	Write a note on Client/Server Testing.	(04 Marks)
y rev		٥.		c 1 '
	6	a.	Explain the six principles that characterize various approaches and technique	tor analysis (10 Marks)
e: 1.			and testing.	
Not		b.	With a neat diagram, explain the relation of verification and validation activities to artifact produced in software development project.	(10 Marks)
tant			to artifact produced in software development project.	
Important Note:	7	a.	Explain the fault based adequacy criteria.	(08 Marks)
In		b.	Describe the test oracles with a neat diagram.	(08 Marks)
		c.	What is scaffolding? Explain.	(04 Marks)

Write short notes on:

- a. Quality Planning
- b. Risk Management
- c. Quality and Processes
- d. Monitoring the process

(20 Marks)

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