Roll No.

322848(22)

APR-MAY

B. E. (Eighth Semester) Examination, 2020

(New Scheme)

(CSE, IT Branch)

SOFTWARE TESTING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) & (d).

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1. (a) What is software quality?

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	(b) State the role of testing in software engineering	
	process. Also describe the objectives of testing.	,
	(c) Describe the Test Planning and Design process in detail.	7
	(d) How the Test Execution can be monitored and	
	measured? Write in brief about various Test Tools.	7
	Unit-II	
2.	(a) What is Static Unit Testing?	2
	(b) Explain the theory of Goodenough and Gerhart	7
	(c) Write short note upon Adequacy of Testing and Limitations of Testing.	7
	(d) How defects can be prevented? Explain the process	
	of debugging.	7
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3.	(a) What is Control Flow testing?	2
	(b) Explain the Data Flow Testing criteria.	7

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(c) Write notes upon Control Flow Graph.	7
(d) Define Domain errors. How testing of domain error	S
is done, explain?	7
Unit-IV	
4. (a) Define Acceptance Testing.	2
(b) What are test design factors? How they affect th	e
test design?	7
(c) Describe the structure of a System Test Plan.	7
(d) Write short notes on:	7
(i) System Testing	
(ii) Types of Acceptance Testing	
Unit-V	
5. (a) What is SQA?	2
(b) Compare Quality Control process with the Quality	
Assurance process.	7
(c) Describe McCall's Quality Factors.	7
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(d) Write short notes on the following

- (i) CMM Model
- (ii) SQA Plan

322848(22)

10]