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## MCA (SEM IV) THEORY EXAMINATION 2023-24 SOFTWARE QUALITY ENGINEERING

TIME: 3 HRS M.MARKS: 100

**SECTION A** 

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

What are the requirements of customer problem metrics?

Explain the objective of software testing process.

1.	Attempt all questions in brief.	$2 \times 10 = 20$
a.	Discuss error, fault & failure with respect to Software Quality.	02
b.	Explain the term Software Quality.	02
c.	Illustrate software quality indicators.	02
d.	Illustrate contents of Product Quality Metrics.	02
e.	What is a software quality model?	02
f.	Is Quality Engineering different from Quality assurance? Clarify.	02
g.	List any four Software Quality Assurance techniques.	02
h.	Explain the term Zero Defect Software.	02

## **SECTION B**

2.	Attempt any three of the following: 3 x 10	= 30
a.	Demonstrate Functional requirements & non-functional requirements with	10
	suitable example.	, 6
b.	Describe the following verification methods in brief (Any two)	10
	(a) Peer Reviews (b) Walkthroughs (c) Inspections	
c.	Determine the assumptions stated by Musa Basic execution model over	10
	Jelinski and Moranda Model.	
d.	Explain the relationship among Quality Assurance, Quality Planning and	10
	Quality Control.	
e.	What are various CASE tools? Describe advantages of CASE tools.	10

## **SECTION C**

Mention the steps involved in the step involved in the s	10 10 = <b>10</b>
metrics in details.  del and Boehm's Quality Model.  1 x 10	= <b>10</b> 10 10 = <b>10</b>
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del and Boehm's Quality Model.  1 x 10	10 = <b>10</b>
1 x 10	= 10
uality Assassment with block	1.0
uanty Assessment with block	10
llity Management.	10
1 x 10	= 10
ecture in detail.	10
itable example.	10
1 x 10	= 10
cteristics of Modern testing tools.	10
s associated with V-Model	10
	1 x 10 ecture in detail. itable example. 1 x 10 cteristics of Modern testing tools.