This question paper contains 3 printed pages]

ND-23-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc CS (Fifth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2023

(CBCS/Revised Pattern)

COMPUTER SCIENCE

(Software Testing)

(Wednesday, 6-12-2023)

Time: 10.00 a.m. to 1.00 p.m.

Time—3 Hours

Maximum Marks—75

- N.B. := (i) All questions are compulsory.
 - (ii) Figures to the right indicate full marks.
 - (iii) Assume suitable data, if required.
 - (iv) Use of any electronic media such as mobile phone, digital diary and electronic calculator is not permitted.
- 1. Attempt any five of the following (3 marks each):

15

- (a) Explain McCall's five quality factors.
- (b) Explain software quality assurance.
- (c) What is system testing?

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W	VT	(2)	ND—23-	-2023
	(d)	Explain internal views of software testing.		
	(e)	Explain in short security testing.	Str. Holy	× ×
	(<i>f</i>)	Explain framework for product metrics.	SE NEW Y	CHT.O.
	(g)	Explain bottom up approach.	The state of the s	8
2.	. Atte	mpt any three of the following (5 marks each):	.0170	15
	(a)	Explain art of debugging.	EAT WAS IN	
	<i>(b)</i>	Explain top down approach in testing.	20	
45%	(c)	Explain quality and security testing.	PLT REPLY	
	(d)	Explain SQA plan.	N. CO.	
olto e	(e)	Explain validation testing in short.	70,	
3.	. Atte	mpt any three of the following (5 marks each):		15
ESTA CO	(a)	Explain control structure testing.		
Chillip II	(b)	Explain user interface testing.		
OLD OF	(c)	Explain metrics for source code.		
THOLE	(d)	Explain quality control in short.		
50	(e)	Explain software reliability.		
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AROTA	JA CTO	A64A707A6C766AA52C1E4101ADCA0F81		

4.	Attem	pt any three of the following (5 marks each):
	(a)	Explain unit testing.
	(<i>b</i>)	Explain black box testing.
	(c)	Explain overview of testing process.
	(<i>d</i>)	Explain metrics for design model.
	(e)	Explain ISO9126 quality factor.
5.	Write	short notes on any three of the following (5 marks each):
3,7	(a)	Formal technical review
X	(<i>b</i>)	Strategic approach to software testing
	(c)	Software testing fundamentals
	(<i>d</i>)	White box testing
CATT	(e)	Content testing.

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