

WEST BENGAL STATE UNIVERSITY

B.Sc. Honours 4th Semester Examination, 2021

CMSACOR09T-COMPUTER SCIENCE (CC9)

SOFTWARE ENGINEERING

Time Allotted: 2 Hours Full Marks: 40

The figures in the margin indicate full marks.

Candidates should answer in their own words and adhere to the word limit as practicable.

All symbols are of usual significance.

 $2 \times 4 = 8$

3+3+2

GROUP-A

Answer any *four* questions from the following:

(a) What are drivers and stubs?

using possible methods.

1.

5.

	(b)	What is SQA?	
	(c)	What is feasibility analysis?	
	(d)	Describe any two cost benefit evaluation methods.	
	(e)	What is cyclomatic complexity?	
	(f)	Define alpha testing.	
	(g)	What are the characteristics of SRS?	
		GROUP-B	
		Answer any four questions from the following	$8 \times 4 = 32$
2.		List the various phases of waterfall model. Why spiral model is called meta model?	6+2
3.		Draw and explain DFD for ATM transaction system.	8
4.		What is COCOMO model? Suppose a project is planned to develop in Java and the number of Function Points is 500 and LOC/FP ratio is 50. Estimate the effort, development time and average number of persons required to complete the project. (Assume a=2.5 and b=1.0).	2+6

Write the C function to find the maximum of three integer numbers. Now draw

the control flow graph for that C function. Also find its cyclomatic complexity

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- 6. Explain the software requirement analysis and specification. Discuss various 4+4 methods for requirement gathering.
- 7. Differentiate white box and black box testing. What is decision tree? Define 2+2+2+2 software risk. What is project scheduling?
- 8. Write short notes on: (any *two*)

4+4

- (a) Data dictionary
- (b) Regression testing
- (c) Cohesion
- (d) Smoke testing.
 - **N.B.:** Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.

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