B. E. Sixth Semester (Computer Technology) Examination

Course Code: CT 1345/CT 401/ Course Name: Software Engineering CT 713

Time: 3 Hours [Max. Marks: 60

Instructions to Candidates :—

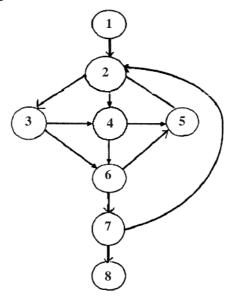
- (1) All questions are compulsory.
- (2) All questions carry marks as indicated.
- (3) Assume suitable data wherever necessary.
- (4) Illustrate your answers wherever necessary with the help of neat sketches.
- 1. Solve any **One** :—
 - (A) What is Requirement Engineering ? Explain the different Requirements Engineering tasks.
 - (B) Explain Spiral Model with suitable diagram. Why this model is called as a Meta model ?
- 2. Solve any **One** :—
 - (A) Illustrate and explain the elements of Analysis model.
 - (B) Discuss the fundamental design concept of software engineering.
- 3. Solve any One :—
 - (A) Elaborate the BVA and Equivalence partitioning techniques of Black Box testing, with a suitable example. Explain Basis Path Testing.

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(B) Calculate the Cyclomatic Complexity, find independent paths, of given flow Graph by Edge and node method, Predicate method and Region Method.



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- 4. Solve any One :—
 - (A) What is the roles of Baseline in SCM? Explain with suitable diagram how the software engineering tasks produce one or more SCI's.
 - (B) List the four primary objectives of SCM. Discuss the working of change control process.
- 5. Solve any **Two** :—
 - (A) Discuss function point metrics.

For an Inventory management application the information domain values are :

- (a) No. of inputs = 15
- (b) No. of outputs = 10
- (c) No. of files = 6
- (d) No. of external interfaces = 3
- (e) No. of inquiries = 20

If we counted 14 algorithms as a basis and complexity adjustment as average. Calculate the value adjusted and unadjusted function point. 7.5

	(B)	What is proactive and reactive risk? Discuss risk estimation.	7. 5
	(C)	Define Measure Metrics and Indicator. Elaborate process and project met	7.5
6.	Solve any	y One :—	
	(A)	Explain Reverse Engineering Process using suitable block schematic.	7.5
	(B)	What is version control ? How to use version control ? Explain.	7.5
	(C)	Discuss Reengineering with its different activities.	7.5