

20/05/2025 TE CSE-AIML SEM-VI C-SCHEME SEPM QP CODE: 10080915

Time: 3 hours

Max. Marks: 80

N.B. (1) Question one is Compulsory.**(2) Attempt any 3 questions out of the remaining.****(3) Assume suitable data if required.****Q. 1 Answer any 4**

- a) What is cohesion and coupling 05
- b) Compare Agile and waterfall models 05
- c) Compare FTR and walkthroughs. 05
- d) What is the golden rule for User interface Design 05
- e) What are different umbrella activities 05

Q.2 a) Explain Design concepts and elaborate Architectural Design styles . 10

- b) Discuss different categories of risk and You are the project manager for a major software company. You have been asked to lead a team that's developing "next generation" word processing software. Create a risk table for the project. 10

Q. 3 a) Elaborate COCOMO Method of cost estimation. 10

- b) Write Test cases for input box accepting numbers between 1 and 1000 using Equivalence Partitioning and using Boundary Value Analysis. 10

Q.4 a) What is the importance of requirement analysis? Explain different Requirement engineering tasks. 10

- b) Explain Software Change management with example. 10

Q. 5 a) Explain with diagram CMM model 10

- b) Draw AON diagram and find the critical path. Find the total float time for each path and list down the critical and non-critical activities. Find the total duration of the project? 10

Activity	Predecessor activity	Duration(days)
A	None	2
B	A	4
C	A	3
D	B	2
E	C	3
F	D	6
G	D	5
H	F,G,E	4

Q.6 Write Short notes on . 20

- Software Quality and quality factors
- PMBOK Knowledge Areas
- Kanban model and extreme programming
- Reverse engineering and reengineering
