(Artificial Intelligence and Machine Learning) (Choice Based) (R-19- 'C' Scheme) SEMESTER - VI / 37473 - Software Engineering and Project Management QP CODE: 10054902 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) Define following terms. i. **Project** ii. Critical path iii. Earned value Process iv. v. Scope (b) Compare Agile and traditional software development models 05 (c) Explain cohesion and coupling. 05 (d) What is the golden rule for User interface Design 05 (e) Explain W5HH Principle. a) What is the importance of requirement analysis? Expain different Requirement engineering tasks. b) Identify any two Risks in online examination System. Perform risk assessment 10 and prepare RMMM Plan for any one risk. 10 3 a) Prepare SRS for Railway Reservation System b) Explain following testing strategies 10 Unit Testing ii. **Integration Testing** Validation Testing System Testing Q.4 a) Draw CFG and calculate cyclomatic complexity for the given PDL if(c1 or c2) do s1; while (c3) while(c4) 10

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b) Explain Software Design concepts.

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Q. 5 a) Explain with diagram CMM model

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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?

4	Activity	Predecessor activity	Duration(days)
	A S	None	2
	B N	A	4
	C O	A	3
	D	B	2,00
<	E &	C	3
)	F S	D A	6
	G	D O	5
	HA	F,G,E	4

Q.6 Write Short notes on any 4.

- i. FTR
- ii. PMBOK Knowledge Areas
- iii. Scrum Model
- iv. SCM Process
- v. Software Reengineering

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