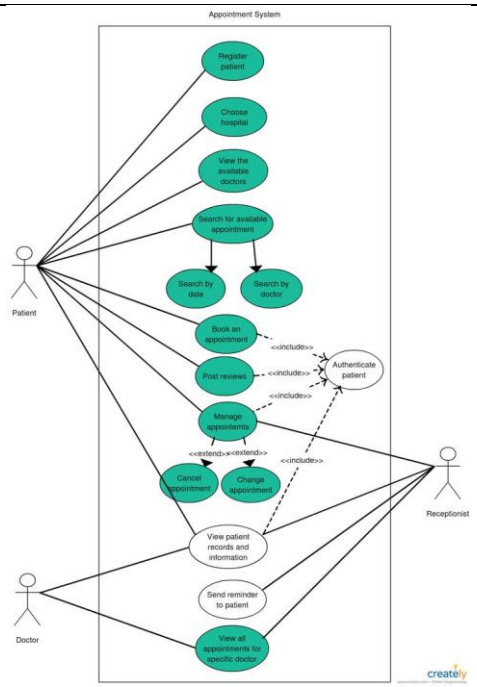
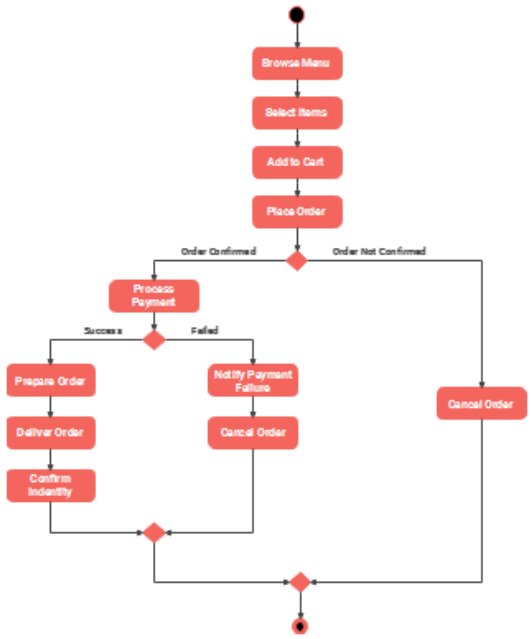
(Affiliated to University of Mumbai)	***End Semester Examination (R-24/R-25) SH 2026 Answer Key with marking scheme***
Branch: CE	Course: Software Engineering
Year/ Semester: TE V	Course code:CEC502
Time: 03 hours	Marks: 80

		Marks
Q. 1	All questions are compulsory.	
A.	Comparison between two models 3M Incremental model with justification 2 M	05
B.	Describe with example 5 elicitation methods	05
C.	Calculate CPI=0.89 and SPI =0.8 Use formula 4 M . Its over Budget and behind schedule 1 M	05
D.	Define COCOMO model 1 M Types of projects 2 M Equations for basic COCOMO model 2M	05
E.	Explain reengineering process with its block 5 M	05
F.	Differentiate based on objective ,techniques used ,participants ,example	05
Q.2A	Agile approach-2M Describe Scrum roles, artifacts, Events and workflow for e -government application 2 M each	10
Q.2B.	Formulate incremntal development strategy for online food delivery app-3 M major increments, development activities, and expected deliverable -7 M	10
Q.3A	Prepare SRS with functional requirements, non-functional requirements, external interfaces, and system constraints in IEEE format.	10
Q.3B	Level 0 DFD With external entities, processes, data stores, and data flows -4 M Level 1 DFD -6 M	10
Q.4A	Correct average complexity weights 1 M Calculation of UFP = 310 1M Correct AFP formula 1M Calculation of AFP = 325.5 1M Interpretation of result 1M	10
Q.4B	Introduction to Management Spectrum 1M explanation and impact of People,Product,Process and Project 2 M each Interrelationship of these 1 M	05
		05
Q.5A	Identify Use cases and draw use case diagram	10

		
Q.5B		10
Q.6A	Prepare RMMM plan for the identified risk data loss, delays in software delivery, unavailability of skilled developers, and incorrect billing calculations .	5
	Design suitable test cases using Black Box Testing techniques Equivalence partitioning test cases 3 M Boundary Value analysis test cases 2 M	
Q.6B	How to use Git for Version control 3 M Give steps for change management 2 M	05
	Define equivalence partitionong and Boundary value analysis 1 M Design test cases using equivalence partitionong and Boundary value analysis 4 M	05

********** All the Best**********