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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
 [AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
 Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 50003

M.E. / M.Tech. DEGREE END-SEMESTER EXAMINATIONS – NOV. / DEC. 2025
 Third Semester
 Computer Science and Engineering
 P23CSE12 – SOFTWARE PROJECT MANAGEMENT
 (Regulation 2023)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	Give the difference between PSP(personal software process) and TSP(Team software process).	2	K2	CO1
2.	List and explain the main features of scrum framework used in agile software development.	2	K2	CO1
3.	What is ACDM (Architecture-centric design method) in software project management, and how does it support software architecture design?	2	K2	CO2
4.	Why is it essential to conduct quality attribute workshops(QAW) during the early phases of software development?	2	K2	CO2
5.	Define wideband Delphi.	2	K1	CO3
6.	Explain the concept of risk mitigation in project management and why is it critical for project success?	2	K2	CO3
7.	Who is a configuration librarian? and what are the key roles and responsibilities associated with this position in software configuration management?	2	K2	CO4
8.	What are software artifacts in a development project, and why are they important for managing and maintaining software?	2	K2	CO4
9.	What is ETVX (Entry-Task-Validation-Exit) model in software project management, and what are its key components?	2	K2	CO5

10. What are the essential elements (or) components of a process in software project management? 2 K1 CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11.	a) With neat sketch discuss the merits and demerits of RAD (Rapid Application Development) and Agile Model. (OR)	13	K2	CO1
	b) Explain the various phases of Software development life cycle.	13	K1	CO1
12.	a) Prepare a software requirement specification (SRS) document for a banking system. The transactions you must take into consideration are deposit, withdrawal and balance enquiry. (OR)	13	K3	CO2
	b) Summarize the challenges faced by a project manager during Requirements gathering. Suggest suitable methods to overcome the difficulties.	13	K2	CO2
13.	a) Illustrate with a numerical example the role of Earned value analysis in project status reporting. (OR)	13	K3	CO3
	b) What are the five domain values used in the function point method of software effort estimation? Taking a simple Library Management System as an example, illustrate the computation of adjusted function points. Assume standard functionalities such as Inquiry, Borrowing, Return, Reservation and Reports are provided by the system.	13	K3	CO3
14.	a) You have been assigned as a project manager for a software project in Quality management phase. As a project manager what major activities will you perform? Discuss. (OR)	13	K2	CO4
	b) How does peer review function as a quality assurance method in software engineering and other fields? and what are the different types of peer review processes?	13	K2	CO4
15.	a) Explain the concept of Six Sigma. Discuss its key principles, methodology, and goals. (OR)	13	K2	CO5
	b) Describe the purpose and structure of the CMMI (Capability Maturity Model Integration) Process. How do they contribute to process improvement in an organization?	13	K2	CO5

PART – C

(1 x 15 = 15 Marks)

Q.No.	Questions	Marks	KL	CO
16. a)	In the present scenario of frequent failures in software projects, can you put forward some strategies that facilitate successful software projects.	15	K2	CO1
	(OR)			
b)	Although the specific details of a project plan can differ depending on the type of project and organization, certain key elements are commonly included in almost all plans. Explain seven important details that are typically found in every project plan.	15	K3	CO3
