



Continuous Assessment Test (CAT) – I - AUGUST 2024

Programme	:	MCA (Master of Computer Applications)	Semester	:	FALL 24-25
Course Code & Course Title	:	PMCA504L Software Engineering	Slot	:	F1+TF1
Faculty	:	Dr. A Sheik Abdullah	Class Number	:	CH2024250103067
Duration	:	90 Minutes	Max. Mark	:	50

General Instructions:

Write only your registration number on the question paper in the box provided and do not write other information.

Answer all questions

Q. No	Sub Sec.	Description	Marks
1.		Consider the following scenario: An e-Library website which is part of Integrated Library System also known as a Library Management System (LMS), and managed by a library or group of libraries. Users of the library can search library catalog online to locate various resources - books, periodicals, audio and visual materials, or other items under control of the library. Users may reserve or new item, provide feedback, and manage their account. Apply the suitable software process model and justify your answer. Identify features required from the users for the development of the given software application.	10
2.		Compare and contrast Agile SCRUM and Crystal approach.	10
3.		Illustrate clearly about the principal requirement engineering activities and their relationship. Also elaborate the role of requirements management in support of other requirement engineering process.	10
4.		In a software process model, generating high level design is most need only by some of the software applications. It makes the project to manage the standard and reduce the number of faults and imperfections in their work. Elaborate the possible ways to utilize the metrics in high level design by the team.	10
5.		Consider an online mobile shopping with the following requirements: <ul style="list-style-type: none">• Customer can buy the mobiles online and pay the amount through net banking or credit card.• Customer can easily browse through various types of mobiles• Customer can search for specific model of mobile• The system has to produce online bills when mobiles are purchased.• Salesman can manage the mobile shop inventory	10

		<p>Salesman can view statistics of previous sales</p> <ul style="list-style-type: none"> Salesman can update the database <p>(a) For the given scenario, Elaborate the list of functional and non-functional requirements with a diagrammatic representation. (6 Marks)</p> <p>(b) Clearly represent user story for the given scenario. (4 Marks)</p>	
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***** All the best *****