

Internal Assessment Question Paper – 1

Ramaiah Institute of Technology
(Autonomous Institute, Affiliated to VTU)
Department of CSE

Programme: B.E
Course: Software Engineering
CIE: I
Max Marks: 30

Sem: IV
Time: 1Hr

Date: 11/6/2021
Term: Feb-May 2021
Course Code: CS46
Section: A,B&C
Portions for Test: Unit1 and 2

Instructions to Candidates:

1. Question 1 is Compulsory and answers any one from Q2 and Q3. Each Question carries 15M.
2. You must write the answer on paper using good quality pen. Please retain this written sheets/paper that should be submitted once you come to college.
3. To avoid that any of your solutions get lost, make sure to write your name and USN on each sheet of paper that you submit in order.
4. Write clearly. Answers that are illegible cannot be counted as correct answers. Read carefully before you answer and observe instructions carefully!
5. Mobiles, smart watches or any electronic gadgets are strictly banned inside the exam hall.

Sl#	Question	Marks	Bloom's Level	CO Mapping
1	a) State the advantages and disadvantages of the evolutionary model of software development. Is it more, or less, suitable than the waterfall model for safety-critical projects? Justify your answer.	6	L4	CO1 and CO5
	b) Compare the requirements modeling for WebApps and generic application. Discuss the situation when to perform explicit analysis activity in WebApps development.	5	L4	CO2
	c) Identify the non-functional requirement type for the following list of requirements. Justify the answer. i. The system should be available 99% of the time between 8.00 am and midnight ii. Average response time should be less than 5 seconds iii. The system shall only be accessible to authorized users iv. The new system should be available for the commencement of the XYZ project	4	L3	CO2 and CO5
2	a) What are the characteristics of good requirements modeling (SRS) to ensure accurate reflection of stakeholder needs and that it provides a solid foundation for design?	4	L2	CO2
	b) Discuss the agility and cost of change relation through clear graph. Discuss any four principles of agile process.	6	L2	CO1
	c) What software process model(s) would you choose for development of a word-processing package project? why? Justify in choice. Discuss the steps of the selected process model in brief.	5	L3	CO1
3	a) Compare the two different ways for representation of Capability Maturity Model Integration (CMMI)	6	L3	CO1
	b) Read the following statement of requirements:	5	L3	CO2 and CO5

	<p>an automated ticket-issuing system sells rail tickets. Users select their destination and input a credit card and a personal identification number. The rail ticket is issued and their credit card account charged. When the user presses the start button, a menu display of potential destinations is activated, along with a message to the user to select a destination. Once a destination has been selected, users are requested to input their credit card. Its validity is checked and the user is then requested to input a personal identifier. When the credit transaction has been validated, the ticket is issued.</p> <p>i. Discover ambiguities in the statement for part of a ticket-issuing system</p> <p>ii. Identify and list a set of functional requirements (at least two) for the ticket-issuing system.</p>			
	c) Illustrate the input and output of domain analysis with neat diagram and list the role of the domain analyst.	4	L2	CO2

Course Outcomes meant to be assessed by the IA Test1:

CO1: Explain the various aspects of the software process, considering the important process models and addressing the debate between prescriptive and agile process philosophies.

CO2: Understand the analysis and design methods using object-oriented techniques and UML modeling, focusing on web/mobile applications.

CO5: Apply the concepts of software engineering principles on the real-world problems of software development using appropriate tools.