

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION)

CLASS: B.TECH  
BRANCH: CSE

SEMESTER : V  
SESSION : MO/2025

SUBJECT: IT337 SOFTWARE ENGINEERING

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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Q.1(a)	What is the most important difference between generic software product development and custom software development?	[2]	1	2
Q.1(b)	Explain Spiral model for software development with neat diagram. State its advantages.	[3]	1	2
Q.2(a)	Enlist the methods of writing a requirements document.	[2]	2	2
Q.2(b)	For a patient monitoring system website, what would be the requirements elicitation and analysis process? explain why would a scenario-based requirements discovery be better than interviewing the stakeholders.	[3]	2	3
Q.3(a)	Draw a labelled diagram to describe the Rational Unified process,	[2]	1	2
Q.3(b)	Using your knowledge of how an ATM is used, develop a set of use cases that could serve as a basis for understanding the requirements for an ATM system.	[3]	2	3
Q.4(a)	List the important activities that are carried out during the feasibility study phase	[2]	1	2
Q.4(b)	Contrast and compare the incremental model with a throwaway prototyping Model. Draw the block diagram for each.	[3]	2	2
Q.5(a)	Differentiate between functional and non-functional requirements with suitable example.	[2]	1	2
Q.5(b)	Explain the four architectural views that are used in a design process.	[3]	1	2

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