

Total No. of Questions – [2]

Total No. of Printed Pages: 2

G.R. No.	
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PAPER CODE	U124-3105
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March 2024 (INSEM) EXAM
F.Y.B. TECH.(INFORMATION TECHNOLOGY) (SEMESTER - II)
COURSE NAME: SOFTWARE DEVELOPMENT METHODOLOGIES
COURSE CODE: IT12235
(PATTERN 2023)

Time: [40 min]

[Max. Marks: 20]

(*) Instructions to candidates:

- 1) **Figures to the right indicate full marks.**
- 2) **Use of scientific calculator is allowed**
- 3) **Use suitable data wherever required**
- 4) **Solve any two sub questions from Question 1 and 2**

Question No.	Question Description	Marks	CO mapped	Blooms Taxonomy Level
Q.1	a) What is software development methodology? Provide a simple definition and explain why it's important in creating software.	[5]	1	2
	b) Describe two phases of the software development life cycle (SDLC) and explain what happens in each phase. Compare how planning and testing phases differ in their objectives and activities.	[5]	1	3
	c) Compare Waterfall and Agile software development methodologies in simple terms. Discuss one advantage and one disadvantage of each methodology, considering factors like flexibility, client involvement, and adaptability to change.	[5]	1	3
Q2	a) How can you assess and critique the application of Scrum framework in fostering collaboration, prioritization, and iterative development within a software development team?"	[5]	2	3

b) How can you analyze and evaluate the effectiveness of Kanban principles and practices in optimizing workflow and enhancing productivity within software development methodologies?	[5]	2	3
c) How would you evaluate the effectiveness and efficiency of Test-driven development (TDD) as a software development methodology, and analyze its impact on code quality, development speed, and overall project success?	[5]	2	3

Blooms Taxonomy Level: 1. Remember 2. Understanding 3. Applying 4. Analyzing
5.Evaluating