Total No. of Questions – [3] No. of Printed Pages: [2]

G.R. No.	

PAPER CODE	U223-214 (BSB)

MAY 2023 (ENDSEM) EXAM

S.Y. B. TECH. (AI&DS) (AY 2022-23 SEMESTER - II)

COURSE NAME: SOFTWARE ENGINEERING

COURSE CODE: ADUA22204

(PATTERN 2020)

Time: [1Hr] [Max. Marks: 30]

(*) Instructions to candidates:

1) **Use of scientific calculator is allowed**
2) **Use suitable data where ever required**
3) **All questions are compulsory**

Question No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) How would you apply a reactive risk strategy in a project?	**[4]**	[4]	[Applying]
	b) Analyze the strengths and weaknesses of reactive and proactive risk strategies and how they can impact the success of a software development project.	**[6]**	[4]	[Analyzing]
	OR			
	c) Analyze the effectiveness of a RMMM plan in mitigating risks in software development projects, including how it can reduce the likelihood and impact of risks, and improve project outcomes.	**[6]**	[4]	[Analyzing]
Q.2	a) Analyze the difference between quality control and quality assurance in software engineering.	**[4]**	[5]	[Analyzing]
	b) In a software development project, apply project management techniques to achieve software quality.	**[6]**	[5]	[Applying]
	OR			
	c) Demonstrate the practical application of defect management and bug reporting principles by creating a bug report and	**[6]**	[5]	[Applying]

	explaining the steps taken to manage and resolve the issue.			
Q.3	a) Compare and contrast software maintenance and reengineering, providing examples of when each would be appropriate and the benefits and drawbacks of each approach."	**[4]**	[6]	[Analyzir
	b) How can the challenges encountered in global software development be analyzed and mitigated effectively? Provide specific examples and solutions to address these challenges.	**[6]**	[6]	[Evaluatir
	OR			
	c) Explain the process of restructuring a software system to improve its maintainability. Discuss the various steps involved and the factors that need to be considered during this process. Provide an example of how restructuring can be achieved to enhance the maintainability of a software system.	**[6]**	[6]	[Evaluating