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P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belagavi)

Eighth Semester, B.E. - Computer Science and Engineering

Semester End Examination; July - 2023

Agile Technologies

Time: 3 hrs *Max. Marks: 100*

Course Outcomes

The Students will be able to:

CO1: Demonstrate a systematic understanding of current agile techniques and practices used in industry.

CO2: Apply industry standard agile techniques in develop software in a team.

CO3: Use group and individual retrospectives to critically evaluate and propose improvements in developing software in a professional context.

CO4: Apply concepts of XP and EVE in develop software.

CO5: Managing the changes applying different testing techniques.

Note: ***I) PART - A*** *is compulsory.* ***Two*** *marks for each question.*

II) PART - B*: Answer any* ***Two*** *sub questions (from a, b, c) for a Maximum of* ***18 marks*** *from each unit.*

Q. No.	Questions	Marks	BLs	COs	POs
	I : PART - A	**10**			
1 a.	Define the following terms: i) Iterative development ii) Iteration time boxing	2	L1	CO1	PO1
b.	List agile manifesto or objectives of agile.	2	L1	CO2	PO1
c.	List any two common mistakes in agile methodology.	2	L1	CO3	PO1
d.	Define extreme programming.	2	L1	CO4	PO1
e.	List two concrete practices for testing on agile teams.	2	L1	CO5	PO2
	II : PART - B	**90**			
	UNIT - I	**18**			
2 a.	Differentiate between predictable manufacturing and new product development.	9	L2	CO1	PO1
b.	With a neat diagram, explain iterative and incremental development.	9	L2	CO1	PO1
c.	Explain early “Top Ten” high level requirements and skill full analysis.	9	L2	CO1	PO1
	UNIT - II	**18**			
3 a.	Explain the different agile principles in detail.	9	L2	CO2	PO1
b.	Illustrate the different key motivations for iterative development.	9	L2	CO2	PO1
c.	Explain the different problems associated with the waterfall model.	9	L2	CO2	PO1
	UNIT - III	**18**			
4 a.	Explain scrum classification in terms of cycles and ceremony. Elaborate phases of scrum lifecycle.	9	L2	CO3	PO1
b.	Discuss the core practices of scrum.	9	L2	CO3	PO11

Contd… 2

	c. Identify and elaborate the essential scrum values required to adopt in efficient development using agile methodology.	9	L2	CO3	PO11
	UNIT - IV	**18**			
5 a.	Explain extreme programming lifecycle phases.	9	L2	CO4	PO11
	b. Define unified process. Classify UP in terms of cycles and ceremony and Cockburn classification.	9	L2	CO4	PO11
	c. Illustrate EVO lifecycle in detail.	9	L2	CO4	PO11
	UNIT - V	**18**			
6 a.	List and explain nine principles for testing on agile teams.	9	L2	CO5	PO1
	b. Discuss six practices for testing on agile teams.	9	L2	CO5	PO2
	c. Explain agile testing lifecycle.	9	L2	CO5	PO2

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