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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 / Aug. - 2022
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**			
I a.	Define the following terms:				
	i) Incremental delivery	2	L1	CO1	PO1
	ii) Evolutionary delivery				
b.	List any four Agile principles.	2	L1	CO2	PO1
c.	Define the term sprint planning.	2	L1	CO3	PO1
d.	List the different deliverable methods.	2	L1	CO4	PO1
e.	Define the term Agile Testing.	2	L1	CO5	PO2
	II : PART - B	**90**			
	UNIT - I	**18**			
1 a.	With relevant illustration, explain the concept of iterative and incremental development.	9	L2	CO1	PO11
b.	Explain briefly time boxed iterative development.	9	L2	CO1	PO11
c.	Differentiate between risk driven and client driven iterative planning.	9	L2	CO1	PO1
	UNIT - II	**18**			
2 a.	With relevant diagram, explain briefly process of Agile Modeling.	9	L2	CO2	PO2
b.	Discuss the problems in waterfall model.	9	L2	CO2	PO11
c.	Explain briefly process of Agile Project Management.	9	L2	CO2	PO2
	UNIT - III	**18**			
3 a.	Discuss the common mistakes and misunderstandings of Agile Methodology.	9	L2	CO3	PO9
b.	Explain briefly adoption strategies of Agile Methodology.	9	L2	CO3	PO1
c.	With neat diagram, explain briefly lifecycle of Agile Methodology.	9	L2	CO3	PO1

	UNIT - IV	**18**			
4 a.	Explain briefly work products, roles and practices of EVO method.	9	L2	CO4	PO11
b.	Discuss core practices of scrum.	9	L2	CO4	PO11
c.	Discuss the common mistakes and misunderstandings of scrum meeting.	9	L2	CO4	PO3
	UNIT - V	**18**			
5 a.	Elaborate six concrete practices for testing on Agile Teams.	9	L2	CO5	PO2
b.	With neat diagram, explain briefly Agile testing lifecycle.	9	L2	CO5	PO2
c.	Explain briefly principles for testing on agile teams.	9	L2	CO5	PO1

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