

Branch – **SOFTWARE SYSTEMS (FIVE YEARS INTEGRATED)**

AGILE SOFTWARE DEVELOPMENT

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Identify what agile computing primarily emphasizes: (i) Strict documentation (ii) Heavy upfront design (iii) Adaptability and collaboration (iv) Rigid processes	K1	CO1
	2	Show which of the following is not an agile process model? (i) Extreme Programming (ii) Scrum (iii) Waterfall (iv) Crystal	K2	CO1
2	3	Recall what effective team communication in agile promotes. (i) Isolation (ii) Delays (iii) Cooperation (iv) Bureaucracy	K1	CO2
	4	Interpret what is meant by Teams Functioning as eco systems. (i) Static roles (ii) Interdependent relationships (iii) Individual work only (iv) Fixed processes	K2	CO2
3	5	State what Self-adapting systems in agile respond to? (i) Static environments (ii) Changing requirements (iii) Fixed plans (iv) No feedback	K1	CO3
	6	Explain the key values of the Agile Manifesto (i) Processes over people (ii) Documentation over working software (iii) Customer collaboration (iv) Contract negotiation	K2	CO3
4	7	Identify what Extreme Programming (XP) focuses on: (i) Documentation (ii) Pair programming and TDD (iii) Fixed roles (iv) Long releases	K1	CO4
	8	Show the focus areas of Crystal methodology (i) Team size and criticality (ii) Tools and techniques (iii) Documentation (iv) Fixed processes	K2	CO4
5	9	Identify where Agile testing is integrated with: (i) Deployment only (ii) Development process (iii) Maintenance phase (iv) Design phase only	K1	CO5
	10	Explain how Test Driven Development begins (i) Writing code (ii) Writing tests (iii) Refactoring (iv) Documentation	K2	CO5

Cont...

Module No.	Question No.	Question	K Level	CO
1	11.a.	Elaborate the problems associated with parsing experience in agile environments.	K4	CO1
		(OR)		
	11.b.	Determine the role of individuals in agile development.		
2	12.a.	Explain the importance of communication and cooperation in agile teams.	K5	CO2
		(OR)		
	12.b.	Illustrate the teams as ecosystems with suitable example.		
3	13.a.	Show the application of agile outside software development.	K6	CO3
		(OR)		
	13.b.	Evaluate the features of Crystal Orange Web.		
4	14.a.	Discuss the Extreme Programming (XP) and its core practices.	K4	CO4
		(OR)		
	14.b.	Assume the functions of Crystal process model.		
5	15.a.	State the benefits of Test Driven Development (TDD)	K5	CO5
		(OR)		
	15.b.	Organize the role of continuous integration in agile testing.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Analyze the three levels of listening and their role in effective agile communication.	K4	CO1
2	17	Examine the teams as communities in agile development.	K5	CO2
3	18	Outline the need of programming as theory building.	K6	CO3
4	19	Demonstrate the importance of Feature Driven Development (FDD).	K4	CO4
5	20	Conclude the agile lifecycle and its impact on testing.	K5	CO5

Z-Z-Z

END