Q. Code:338574

Reg. No. | | | | | | | | | | | | | |

B. E / B. TECH.DEGREE EXAMINATIONS, MAY 2024

Eighth Semester

CS18004 – AGILE METHODOLOGIES

(Computer Science and Engineering, Information Technology)

(Regulation 2018)

TIME: 3 HOURS **MAX. MARKS: 100**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO1	Enumerate the importance of interaction with stakeholders in gathering the requirements for a software.	**4**
CO2	Perform planning of agile iterative software development processes.	**3**
CO3	Develop techniques and tools for improving agile process.	**3**
CO4	Use agile knowledge management processes.	**3**
CO 5	Enumerate agile approaches, Metrics and quality.	**4**

PART- A(10x2=20Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	List the three phases of scientific development. Write brief notes about any two phases.	**1**	**3**
2.	Differentiate Lean Software Development vs. Extreme Programming.	**1**	**4**
3.	List out the classifications in Agile methods.	**2**	**2**
4.	Identify who is responsible for setting up the team, sprint meeting etc. Justify the answer.	**2**	**3**
5.	Differentiate Systems school and Cartographic school.	**3**	**3**
6.	Analyze the essential strategic challenges encountered by every enterprise.	**3**	**4**
7.	List down the step process for requirements prioritization.	**4**	**2**
8.	Show the advantages of agile requirements engineering.	**4**	**2**
9.	Analysis the role of Financial metrics in FDD.	**5**	**4**
10.	Compare and Contrast Unit testing and Acceptance testing.	**5**	**4**

PART- B (5x 14=70Marks)

		Marks	CO	RBT LEVEL
11. (a)	Differentiate in detail between the Agile and Waterfall models, including examples to illustrate the distinctions.	**(14)**	**1**	**4**
	(OR)			
(b)	Examine the stages of the Agile software development process and elaborate extensively on the principles outlined in the Agile manifesto.	**(14)**	**1**	**4**

12. (a)	Analyze the strengths and weaknesses of SCRUM method and illustrate the key principles of Scrum in detail with examples.	**(14)**	**2**	**4**
	(OR)			
(b)	Examine the work flow of Extreme Programming (XP) and illustrate the original twelve practices of XP.	**(14)**	**2**	**4**
13. (a)	Illustrate in detail about the Earl's Knowledge Management schools taxonomy with relevant examples.	**(14)**	**3**	**3**
	(OR)			
(b)	Illustrate the benefits and challenges of knowledge management for both business enterprises and software firms.	**(14)**	**3**	**3**
14. (a)	Identify how Agile requirements modeling and generation contributes to project development with relevant examples.	**(14)**	**4**	**3**
	(OR)			
(b)	Identify the key considerations and approaches for requirements engineering within Agile environments.	**(14)**	**4**	**3**
15. (a)	Examine the Agile Product Development process with the real world application and benefits.	**(14)**	**5**	**4**
	(OR)			
(b)	Analyze how the quality of software is improved using Agile.	**(14)**	**5**	**4**

PART- C (1x 10=10Marks)

(Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	Determine the need and workflow of the Crystal method and elucidate the characteristics and advantages of the Crystal Agile framework.	**(10)**	**2**	**5**

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