Reg. No.

B.E. / B.TECH. DEGREE EXAMINATIONS, MAY 2023
Eighth Semester
CS18004 – AGILE METHODOLOGIES
(Common to CS and IT)
(Regulation 2018)

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

CO1   Students can understand the importance of interaction with stakeholders in gathering the requirements for a software.
CO2   Students can perform planning of agile iterative software development processes.
CO3   Students can develop techniques and tools for improving agile process.
CO4   Students can practice agile knowledge management processes.
CO5   Students can understand about agile approaches, Metrics and quality.

PART- A (10x2 = 20 Marks)
(Answer all Questions)

		CO	RBT LEVEL
1.	What are the essential Ethics to be followed in Agile Teams? Justify.	1	4
2.	How do you Classify the Agile Method?	1	3
3.	Define Agile lifecycle.	2	2
4.	Justify why are SCRUM used for lean production.	2	4
5.	What is distribution in agile methodologies?	3	2
6.	What is the relationship between Story-Card Maturity Model and knowledge management?	3	3
7.	Is Managing Unstable Requirements Essential for Agile SDLC-based software development? Justify your view.	4	4
8.	Why do we need Agile Requirements Prioritization on Agile SDLC?	4	3
9.	What is the Agile Approach to Quality Assurance?	5	2
10.	How do you apply Agile Metrics?	5	3

PART- B (5x14 = 70 Marks)

		Marks	CO	RBT LEVEL
11. (a)	Compare any one Traditional SDLC Model with Agile SDLC Model. Justify which is best suited for the development of software.	(14)	1	4

(OR)

(b)	Discuss the Agile SDLC for any real-time software development and analyze the essentials of Agile SDLC and its advantages.	**(14)**	1	4

12. (a) Discuss in detail the Feature Driven Development. Justify what are the suitable applications for Feature Driven Development. **(14)** 2 4

(OR)

(b) Discuss in detail Extreme Programming and its methods. Justify what are the suitable applications for extreme programming. **(14)** 2 4

13. (a) Explain the knowledge management and decision-making concepts used in Agile. Justify if any flaw exists. **(14)** 3 3

(OR)

(b) Discuss Managing Software Knowledge and Challenges of Migrating to Agile Methodologies in detail. Justify if there is any drawback in managing software knowledge for any real-time software development. **(14)** 3 3

14. (a) Discuss the Agile Requirements Modeling for any suitable software project development. Justify what the functional and implementation difficulties, if any, present are. **(14)** 4 4

(OR)

(b) Discuss the Agile Requirements Abstraction Model for any suitable software project development. Justify what the functional and implementation difficulties, if any, present are. **(14)** 4 4

15. (a) Discuss details of Financial and Production Metrics in FDD, take any example and measure the metrics. **(14)** 5 2

(OR)

(b) Discuss details about Test Driven Development and apply them to any software development. **(14)** 5 2

PART- C (1x10 = 10 Marks)

(Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	Can you discuss the Agile Approach in Global Software Development with any global software development? Evaluate its practical difficulties.	**(10)**	5	5

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