Q. Code:608229

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

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

Fourth Semester

IT22409 – SOFTWARE ENGINEERING METHODOLOGIES: THEORY AND PRACTICES

(Information Technology)

(Regulation 2022)

TIME: 1 HOUR 30 MINUTES **MAX. MARKS: 50**

COURSE OUTCOMES	STATEMENT	RBT LEVEL
CO 1	Assess the roles of software process.	**5**
CO 2	Compare different software engineering methodologies.	**4**
CO 3	Develop real-world software development projects.	**6**
CO 4	Adapt agile methodology in real world software engineering projects.	**4**
CO 5	Assess software Projects responding to change and involving customer in the development process.	**5**

PART- A (10 x 2 = 20 Marks)

(Answer all Questions)

		CO	RBT LEVEL
1.	Choose a lifecycle model for developing a software with well defined requirements.	**1**	**3**
2.	Illustrate the classification of non-functional requirements.	**1**	**2**
3.	List the System requirements specification of Mentcare system.	**1**	**4**
4.	Examine the use of developing models of an existing system.	**2**	**4**
5.	List the approaches in interaction modeling.	**2**	**4**
6.	Illustrate a sequence model of processing an order and sending it to a supplier.	**2**	**2**
7.	Identify the need for Model-driven engineering.	**2**	**3**
8.	Summarize the golden rules that form the basis for a set of user interface design principles.	**3**	**2**
9.	Differentiate between plan driven and agile driven methods.	**4**	**4**
10.	List the benefits and problems of reusing COTS products.	**5**	**4**

PART- B (2 x 10 = 20 Marks)

		Marks	CO	RBT LEVEL
11. (a)	List the features of Scrum methodology and elucidate in detail.	**(10)**	**4**	**4**

(OR)

(b)	Examine the concept of maintaining a prioritized list of all the possible work that can be done to release a particular product.	**(10)**	**4**	**4**
12. (a)	Inspect a framework that supports the construction of dynamic websites as a front-end for web applications and explain in detail.	**(10)**	**5**	**4**
	(OR)			
(b)	Categorize the ways of organizing the architecture of a distributed system.	**(10)**	**5**	**4**

PART- C (1 x 10 = 10 Marks)

(Q.No.13 is compulsory)

		Marks	CO	RBT LEVEL
13.	Recommend User Interfaces for an Enterprise Resource Planning software deployed at a University.	**(10)**	**3**	**5**

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