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1012E1470

Candidate's Seat No : _____

IMSc in IT DMVI (NEP) Sem.-3 Examination

DSC-C-DMVI-233T

Software Development Life Cycle

December-2025

Time : 1-00 Hour]

[Max. Marks : 25

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		Marks
Q.1	<p>1. The process of identifying and evaluating problems in software development is called ____.</p> <p>a) Risk analysis b) Debugging c) Verification d) Review</p> <p>2. The main goal of code review is to ____.</p> <p>a) Increase project cost b) Check syntax errors only c) Improve code quality and maintainability d) Reduce team communication</p> <p>3. Code efficiency primarily focuses on ____.</p> <p>a) More lines of code b) High CPU and memory usage c) Low resource consumption and fast execution d) Complex logic</p> <p>4. Verification is also known as ____.</p> <p>a) Dynamic Testing b) Static Testing c) Regression Testing d) Black-box Testing</p> <p>5. Validation ensures that we are ____.</p> <p>a) Building the product right b) Building the right product c) Not testing enough</p>	(10)

		<p>d) Documenting errors</p> <p>6. In the Waterfall model, each phase is considered ____.</p> <p>a) Flexible b) Frozen c) Iterative d) Optional</p> <p>7. Which model is best suited for high-risk, large projects?</p> <p>a) Spiral Model b) Waterfall Model c) Prototype Model d) V-Model</p> <p>8. The foundation of software engineering is the ____ layer.</p> <p>a) Tools b) Methods c) Process d) Technology</p> <p>9. Which of the following is NOT a characteristic of a good SRS?</p> <p>a) Completeness b) Consistency c) Ambiguity d) Correctness</p> <p>10. The term "Black-box view" in SRS refers to ____.</p> <p>a) How the system works internally b) What the system should do externally c) Detailed algorithms d) Design constraints</p>	
Q.2	(a)	What are software myths? Discuss any two management myths.	(5)
OR			
Q.2	(a)	List the different phases of the SDLC	(5)
Q.3	(a)	What are the main steps involved in requirement analysis?	(5)
OR			
Q.3	(a)	Differentiate between verification and validation in software testing.	(5)
Q.4		What is system testing? Outline its process.	(5)