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 **PRESIDENCY UNIVERSITY**

  **Bengaluru**

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| **End - Term Examinations – JANUARY 2025** |
| **Date:** 08 / 01 / 2025 **Time:** 09:30am – 12:30pm |

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| **School: SOCSE** | **Program:** B.TECH ( CSE – DEVOPS) |
| **Course Code :** CSE3040 | **Course Name :** Agile Structure and framework  |
| **Semester**: V | **Max Marks**:100 | **Weightage**: 50%  |

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| **CO - Levels** | **CO1** | **CO2** | **CO3** | **CO4** |
| **Marks** | **26** | **24** | **26** | **24** |

**Instructions:**

1. *Read all questions carefully and answer accordingly.*
2. *Do not write anything on the question paper other than roll number.*

**Part A**

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| **Answer ALL the Questions. Each question carries 2marks. 10Q x 2M=20M** |
| **1** | Describe time-boxed iterative development? | **2 Marks** | **L2** | **CO1** |
| **2** | Define Agile methodology. | **2 Marks** | **L2** | **CO1** |
| **3** | Identify the risks and disadvantages that are associated with the agile process. | **2 Marks** | **L2** | **CO1** |
| **4** | Name the five scrum events. | **2 Marks** | **L2** | **CO2** |
| **5** | List the Scrum key artifacts.  | **2 Marks** | **L1** | **CO2** |
| **6** | Define Feature Driven Development (FDD).  | **2 Marks** | **L2** | **CO4** |
| **7** | Define XP? | **2 Marks** | **L2** | **CO3** |
| **8** | Define Unified process.? | **2 Marks** | **L2** | **CO3** |
| **9** | What is Test Driven Development.?  | **2 Marks** | **L2** | **CO4** |
| **10** | What are XP values.? | **2 Marks** | **L2** | **CO3** |

**Part B**

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| **Answer the Questions Total 80 Marks.** |
| **11.** | **a.** | Explain the role of Agile technology tools in supporting Agile project management and software development. Discuss how tools like Jira, Trello, or Azure DevOps facilitate Agile practices.  | **10 Marks** | **L2** | **CO4** |
| **b.** | Compare and contrast two Agile tools of your choice in terms of their features, functionalities, and suitability for specific Agile frameworks. Provide examples to justify your comparison. | **10 Marks** |
| **or** |
| **12.** | **a.** | Explain how Agile methodologies integrate Quality Assurance (QA) into the development process. Discuss the role of continuous testing and feedback in Agile projects.  | **10 Marks** | **L2** | **CO4** |
| **b .** | Describe the challenges of ensuring quality in Agile environments. How can Agile teams overcome these challenges to maintain high-quality deliverables? Support your answer with examples of QA practices in Agile frameworks like Scrum or Kanban. | **10 Marks** |
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| **13.** |  **a.** | Explain in detail the tips for evolutionary requirements analysis. | **10 Marks** | **L2** | **CO1** |
| **b.** | Describe any 10 smart agile objectives briefly. | **10 Marks** |
| **or** |
| **14.** | **a.** | Describe the twelve Agile principles of Agile Manifesto and distinguish between the characteristics agile and traditional process in five points. | **10 Marks** | **L2** | **CO1** |
| **b.** | Describe the two estimation scales used in agile. | **10 Marks** |

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| **15.** | **a .** | Sketch and explain the Scrum and Agile process. Demonstrate the scrum through scrum activities and scrum roles.  |  **10 Marks** | **L2** | **CO2** |
| **b.** | Demonstrate your motivation for Agile Development.Explain user story equation with an example. |  **10 Marks** |
| **Or** |
| **16.** | **a.** | Explain in detail the tips for evolutionary requirements analysis and Describe any 10 smart agile objectives briefly. | **10 Marks** | **L2** | **CO2** |
| **b.** | What is iteration planning, and how is it conducted?.How does Agile testing differ from traditional testing approaches? | **10 Marks** |

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| **17.** | **a.** | What are XP values? Principles and practices? &With a neat diagram, explain XP life cycle. | **10 Marks** | **L2** | **CO3** |
| **b.** | Describe the key life cycle phases of the Unified Process. Explain the objectives and major activities in each phase.  | **10 Marks** |
| **Or** |
| **18.** | **a.** | Describe the life cycle phases of the EVO (Evolutionary) development model. Explain how these phases contribute to incremental delivery and early stakeholder feedback.  | **10 Marks** | **L2** | **CO3** |
| **b.** | Discuss the work product roles and practices in the EVO model. Highlight how roles like developers, testers, and managers collaborate to ensure successful delivery. Provide examples to support your answer. | **10 Marks** |

**\*\*\*\*\* BEST WISHES \*\*\*\*\***