

Code No: R17A0539

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
 (Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Supplementary Examinations, April 2024
Software Process & Project Management
(CSE)

Roll No										
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 A Explain the Principles of Software Process Change? [7M]
 B Explain the capability Maturity model with its limitations? [7M]
- OR
- 2 A Illustrate the Frame work activities of PSP? [7M]
 B Describe Software Process Assessment Cycle with a neat diagram? [7M]

SECTION-II

- 3 A Describe the improvements to the basic waterfall model that would eliminate most of the development risks? [7M]
 B Explain Barry Boehm’s “Industrial Software Metrics”? [7M]
- OR
- 4 A Explain with a neat diagram how various artifacts evolved over the life cycle? [7M]
 B Explain top ten software management principles? [7M]

SECTION-III

- 5 A Discuss about work breakdown structures? [7M]
 B What is iteration planning? Explain iteration planning process in brief. [7M]
- OR
- 6 A Discuss about major and minor milestones in the life cycle of an iteration. [7M]
 B Explain about periodic status assessment? [7M]

SECTION-IV

- 7 A What is a seven core metrics? Discuss about pragmatic software metrics. [7M]
 B What are management indicators? Explain. [7M]
- OR
- 8 A What is the need of metric automation? Discuss. [7M]
 B Explain about Project Control and Process Instrumentation? [7M]

SECTION-V

- 9 A Explain about the Next generation software economics? [9M]
 B Describe the activities of Software Architecture team? [5M]
- OR
- 10 A Explain about Modern Process Transitions? [10M]
 B What are the Major points CCPDS-R Case Study? [4M]

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IV B.Tech - II Semester Supplementary Examinations, April 2024**Machine Learning****(CSE)**

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

*********SECTION-I**

- 1 *A* Discuss one perspective or issue related to machine learning that impacts its effectiveness. [7M]
 B What is PAC learning, and why is it important in machine learning? [7M]
 OR
- 2 *A* How do you determine the appropriate level of grouping and grading in a machine learning task? [7M]
 B Describe a scenario where version spaces are particularly useful in machine learning. [7M]

SECTION-II

- 3 *A* Explain how the ID3 algorithm builds a decision tree for classification. [7M]
 B How does Logistic Regression differ from Linear Regression? [7M]
 OR
- 4 *A* Describe the structure of a multilayer perceptron (MLP) in neural networks. [7M]
 B Discuss the trade-offs involved in using different kernel functions in SVMs. [7M]

SECTION-III

- 5 *A* Explain the concept of model combination schemes in ensemble learning. [7M]
 B Describe the process of AdaBoost and how it improves the performance of weak learners. [7M]
 OR
- 6 *A* What is the KD-Tree, and how does it improve the efficiency of distance computations in nearest neighbour methods? [7M]
 B Compare and contrast different distance measures used in nearest neighbour methods. [7M]

SECTION-IV

- 7 *A* Describe the basic components of a reinforcement learning task. [7M]
 B What are some experimentation strategies used in reinforcement learning? [7M]
 OR
- 8 *A* Discuss the concept of convergence in the context of hypothesis evaluation. [7M]
 B Explain how different experimentation strategies can affect the learning process in reinforcement learning. [7M]

SECTION-V

- 9 *A* What is the motivation behind using genetic algorithms in optimization problems? [7M]
 B How is a fitness function used in genetic algorithms, and how does selection work? [7M]

OR

- 10** **A** How do models of evolution, such as Lamarckian Evolution and the Baldwin Effect, influence the design of genetic algorithms? **[7M]**
- B** Discuss the challenges involved in scaling up genetic algorithms to handle large-scale optimization problems. **[7M]**
