

Code No: R17A0539

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Supplementary Examinations, April 2023**Software Process & Project Management****(CSE & IT)**

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 Describe the principles of software process change and TSP. [14M]

OR

2 Discuss about software process assessment. And also discuss about CMM. [14M]

SECTION-II

3 a) Write a note on Management Artifacts. [7M]

b) Which phase of the four phases of software life cycle is the most critical? Justify your statement. [7M]

OR

4 a) Write a note on Evolution of Software Economics. [7M]

b) What are the general quality improvements with modern process models? [7M]

SECTION-III

5 a) Describe in brief the cost and schedule estimating process [7M]

b) What are software process workflows? Discuss in detail. [7M]

OR

6 a) Describe the conventional Work breakdown structure issues and planning guidelines. [7M]

b) Explain the iteration emphasis on the software life cycle. How the iteration process planning will be done for various phases. [7M]

SECTION-IV

7 a) Give the purpose and its perspectives of seven core metrics used in a software project management. [7M]

b) Measuring is useful, but it doesn't do any thinking for the decision makers. It only provides data to help them ask the right questions, understand the context and make objective decisions. Comment on the statement by considering the characteristics of a good metric. [7M]

OR

8 What are the software project quality indicators? Explain them. [14M]

SECTION-V

9 What are the software management best practices? Explain them. [14M]

OR

10 a) Discuss in detail about CSCI productivities and Quality factors involved in CCPDS-R. [7M]

b) List and explain the critical approaches of modern process framework for resolving top ten risks. [7M]

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IV B.Tech - II Semester Supplementary Examinations, April 2023**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. What is Machine Learning? Explain components of Learning. [7M]
b. How to design a Learning System and explain? [7M]

OR

- 2 a. Discuss Version Space in detail? [7M]
b. Illustrate Vapnik-Chervonenkis (VC) dimension? [7M]

SECTION-II

- 3 a. Illustrate the impact of overfitting in a typical application of decision tree learning. [10M]
b. Differentiate ID3 and CE algorithm. [4M]

OR

- 4 Explain Backpropagation algorithm with an example. [14M]

SECTION-III

- 5 How Error-correcting output codes differ from one-vs-rest and one-vs-one methods. Explain in detail. [14M]

OR

- 6 Explain the concept of EM Algorithm. [14M]

SECTION-IV

- 7 a. Explain Learning from rewards with an example. [7M]
b. What is the trade-off between bias and variance? [7M]

OR

- 8 Explain Binomial Distribution with an example. [14M]

SECTION-V

- 9 a. Describe maximum likelihood and least-squares error hypothesis. [7M]
b. What is Fitness Function and selection. [7M]

OR

- 10 Write a Genetic Algorithm and explain its operations with an example. [14M]
