

Code No: **R15A0535****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****IV B.Tech I Semester Supplementary Examinations, April 2023****Semantic Web and Social Networks****(CSE)**

<b>Roll No</b>									
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**Time: 3 hours****Max. Marks: 75****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

**PART-A (25 Marks)**

- 1). a Write about OWL [2M]
- b What are data mining agents [3M]
- c Write about scripting languages [2M]
- d Discuss few RDFs properties [3M]
- e List some ontology development tools [2M]
- f Define forward chaining and backward chaining [3M]
- g Write about semantic bio- informatics? [2M]
- h What is semantic web document [3M]
- i Write short notes Elmo API? [2M]
- j What do you mean by Graph Util? [3M]

**PART-B (50 MARKS)****SECTION-I**

- 2 Discuss about ONTOLOGY and its key applications [10M]
- OR

- 3 a) Write a short note on WWW architecture in detail. [5M]
- b) Describe about artificial intelligence and software agents. [5M]

**SECTION-II**

- 4 a) Explain about Ontology with example in detail. [5M]
- b)What is XML? Describe in detail with an example. [5M]

OR

- 5 Discuss any two Ontologies Languages for the Semantic Web [10M]

**SECTION-III**

- 6 Write about ontology matching and mapping [10M]
- OR

- 7 a) Describe about web search agents [5M]
- b) Explain in detail Ontology engineering. [5M]

**SECTION-IV**

- 8 a)Explain about semantic web and its applications. [5M]
- b)Explain about semantic search technology in detail. [5M]

OR

- 9 How to creating OWL-S ontology and explain the web services. [10M]
- SECTION-V**
- 10 a) Explain in detail about social network analysis [5M]  
b) Describe web based network. [5M]
- OR
- 11 Write a detailed notes on architecture of semantic web applications. [10M]  
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Code No: R15A0528

**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

**IV B.Tech I Semester Supplementary Examinations, April 2023****Design Patterns**

(CSE)

<b>Roll No</b>										
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**Time: 3 hours****Max. Marks:****75****Note:** This question paper contains two parts A and B

Part A is compulsory which carries 25 marks and Answer all questions.

Part B Consists of 5 SECTIONS (One SECTION for each UNIT). Answer FIVE Questions, Choosing ONE Question from each SECTION and each Question carries 10 marks.

**PART-A (25 Marks)**

- 1). a What is a design pattern? [2M]
- b Explain design patterns in Smalltalk MVC. [3M]
- c Explain about recursive composition. [2M]
- d Explain briefly about “Monoglyph” [3M]
- e Describe the motivation for Bridge Pattern. [2M]
- f What are the two variations of the Adapter pattern [3M]
- g What is the intent of mediator pattern? [2M]
- h List the several consequences of Memento [3M]
- i What is the intent of Strategy pattern? [2M]
- j Sketch the class diagram for TCP connection class. [3M]

**PART-B (50 MARKS)****SECTION-I**

- 2 a) Write the general template used for describing the design patterns. [5M]
- b) List and explain different ways of organizing design patterns. [5M]

OR

- 3 What are the common causes of Redesign? Explain in detail [10M]

**SECTION-II**

- 4 Explain Abstract factory Structure? in detail [10M]

OR

- 5 a)What are consequences of Builder pattern? Explain Builder pattern implementation. [5M]
- b)Write sample code of Prototype pattern. [5M]

**SECTION-III**

- 6 Discuss the Intent, Applicability, Sample code, and Known uses of the following Patterns:

- a) Adapter [5M]
- b) Flyweight. [5M]

OR

- 7 Discuss the pattern name, Applicability, Consequences and Related Patterns of

the following Patterns

- a) Bridge [5M]
- b) Proxy [5M]

**SECTION-IV**

- 8 a) Write about motivation and consequences of Façade pattern [5M]
- b) Write sample code of Composite pattern. [5M]

OR

- 9 a) Explain in detail about Command pattern. [5M]
- b) Describe in detail about Iterator Pattern. [5M]

**SECTION-V**

- 10 a) Discuss about consequences and implementation issues of State design pattern. [5M]
- b) Explain the participants, collaborations and sample code of Template method. [5M]

OR

- 11 Discuss briefly about the following Patterns: [5M]
- a) Visitor [5M]
- b) Strategy.

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