**M S RAMAIAH INSTITUTE OF TECHNOLOGY**

(Autonomous Institute, affiliated to VTU)

**DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING**

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| --- | --- | --- | --- |
| **Term:** | 22nd Jan – 12th May, 2018 | **Course Code:** | IS 642B |
| **Course:** | OO based Analysis and Design Patterns | **Semester:** | 6 A, B, C |
| **CIE:** | Test – I | **Max Marks:** | 30 |
| **Date:** | 26-02-2018 | **Time:** | 2 – 3 pm |

**Portions for Test:** Lecture Nos. from 01 to 14 as per lesson plan.

**Instructions to Candidates:** Answer any two full questions. Mobiles are not allowed.

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| --- | --- | --- | --- | --- |
| **Sl. #** | **Question** | **Marks** | **Bloom’s Level #** | **COs** |
| 1a | Why is Design Pattern important? Elaborate your answer. | 5 | A | CO2 |
| 1b | Is quality objective? Debate. | 5 | A | CO2 |
| 1c | What are the various ways of handling new requirements? Discuss the problems if any. | 5 | A | CO1 |
| 2 | Choose any one DP: Strategy, Adapter, Façade   1. Describe the key features and also show class diagram and sequence diagram for an example. 2. Show implementation code and explain the working of pattern for that example. | 15 | C | CO1, CO2 |
| 3 | Write short notes on following:   1. Cohesion and coupling 2. Need for object orientation 3. 3 Perspectives of software development 4. 3 strategies used in design patterns 5. 3 object oriented concepts. | 15 | U | CO1, CO2 |

#: U=Understand, A= Analyze, C – Create

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