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Code No: 155SG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, August - 2022

DESIGN PATTERNS

(Common to CSE, IT)

Time: 3 Hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks

- 1.a) What is Design Pattern? Write about design patterns in small talk MVC.
- b) Write the standard format for describing design patterns and explain. [7+8]
- 2.a) How design patterns solves design problems? Explain.
- b) Explain the catalog of design patterns and its organization. [7+8]
- 3.a) Discuss about the functionality of operations that are accessed indirectly through user operations.
- b) Explain about supporting multiple window systems in designing a document editor. [8+7]
4. Describe the following design problems in detail.
 - a) Supporting Multiple Look and Feel Standards
 - b) Spelling checking and hyphenation. [7+8]
- 5.a) What are creational patterns? Write in detail about Singleton and Prototype patterns.
- b) Discuss detail about the consequences of Abstract Factory Pattern. [8+7]
- 6.a) Discuss about implementation issues in factory method design pattern.
- b) Explain sample code of builder design pattern. [8+7]
- 7.a) Describe the features of structural patterns in detail.
- b) What is the intent and motivation of adapter design pattern? Explain. [7+8]
- 8.a) What is the intent of Chain of Responsibility design pattern? Discuss its motivation in detail.
- b) Explain in detail about the applicability and structure of Command pattern. [8+7]

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