IV B.Tech. II Semester Regular & Supplementary Examinations September 2020
Design Patterns Through JAVA
(Computer Science and Engineering)

Max. Marks: 70   Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

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UNIT–I

1. Define Design Patterns and how Design patterns solve many of the day-to-day problems, object-oriented designers face.   14M

OR

2. Discuss briefly about fundamental design patterns.   14M

UNIT–II

3. Distinguish factory method and abstract factory and explain abstract factory with example.   14M

OR

4. Explain how to design a flyweight in java.   14M

UNIT–III

5. a) What are the characteristics of decorator?   5M

 b) Design a counting proxy that keeps track of the number of orders created and provides the average order amount.   9M

OR

6. What are the consequences of Chain of Responsibility pattern? Explain.   14M

UNIT–IV

7. a) Illustrate mediator design pattern with example.   7M

 b) Compare mediator design pattern with facade design pattern.   7M

OR

8. Discuss about interpreter design pattern and its implementation in java.   14M

UNIT–V

9. Identify how the Template Method pattern is used.   14M

OR

10. Elaborate the following concurrency design patterns.
 a) Critical section
 b) Consistent lock order
 c) Read-write lock   14M

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Code: 5G184

IV B.Tech. II Semester Regular & Supplementary Examinations September 2020

Software Architecture

(Computer Science and Engineering)

Max. Marks: 70   Time: 3 Hours

Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)

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			Marks	CO	Blooms Level
		UNIT–I			
1.	a)	Explain in detail how software architecture manifests the earliest of design decisions.	8M	1	1,2
	b)	List and explain the good features of software architecture.	6M	1	1,2
		OR			
2.	a)	With the help of diagram, list common software Architecture structures.	7M	1	1
	b)	How to find the status of the architecture. Explain	7M	1	1,2
		UNIT–II			
3.	a)	Explain various architecture styles and heterogeneous architectures.	10M	2	2
	b)	Summarize the Process control in detail.	4M	2	2
		OR			
4.	a)	Explain briefly the following advantages and disadvantages i) Data Abstraction and Object Oriented organization. ii) Layered Systems.	10M	2	2
	b)	What is meant by Interpreters? Explain it.	4M	2	1,2
		UNIT–III			
5.	a)	What is shared information system? Explain architectural structures of shared information system.	9M	3	1
	b)	Explain about database integration in detail.	5M	3	2
		OR			
6.	a)	Explain briefly about World wide Web (case study).	10M	3	2
	b)	Discuss about inter-operability in detail.	4M	3	6
		UNIT–IV			
7.	a)	Define reflection architectural pattern. Explain the dynamics of the same.	8M	4	1,2
	b)	Explain about structural Patterns in detail	6M	4	2
		OR			
8.	a)	Explain briefly Architectural design Space and Standard computing in detail.	8M	4	2
	b)	Discuss about CORBA in detail.	6M	4	6
		UNIT–V			
9.	a)	Explain how capturing Architectural Information in an ADL.	10M	5	2
	b)	Discuss about Achieving architecture.	4M	5	6
		OR			
10.	a)	Describe in brief about Organizational Implications of a Product Line.	10M	5	1
	b)	What is Assets and write about Reusing Architectural Assets.	4M	5	1

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IV B.Tech. II Semester Regular & Supplementary Examinations September 2020
Human Resource Management
(Common to CE, CSE & IT)

Max. Marks: 70   Time: 3 Hours
Answer *all five* units by choosing one question from each unit (5 x 14 = 70 Marks)
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UNIT–I

1. a) Define Human Resource Management and explain its scope   4M
   b) Narrate major differences between Personnel Management and HRM   10M

OR

2. What are the competitive challenges of HRM   14M

UNIT–II

3. a) Discuss the steps in Human Resource Planning Process   7M
   b) Write a short notes on Job description.   7M

OR

4. a) Explain in detail the methods of Job Design   6M
   b) What are the methods of collecting Job Analysis Data   8M

UNIT–III

5. Define selection. Narrate the sequential steps involved in selection process. 14M

OR

6. a) What are the sources of Recruitment? Explain the advantages of them.   8M
   b) Distinguish between Placement and Induction? Explain their significance   6M

UNIT–IV

7. a) What is Career Planning? Explain its advantages   5M
   b) Discuss the steps in Employee Career Planning   9M

OR

8. a) What are the different training methods used in a company to train an employee? 7M
   b) Explain any two training methods in detail.   7M

UNIT–V

9. a) Explain the components of Compensation Structure   5M
   b) Discuss important features of wage policy in India   9M

OR

10. a) What is 360 degree performance appraisal?   4M
    b) Explain different approaches to Industrial Relations in India   10M

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