

Birla Institute of Technology & Science, Pilani
Work-Integrated Learning Programmes Division
First Semester 2016-2017
Mid-Semester Test (EC-2 Regular)

Course No. : SS ZG653
Course Title : SOFTWARE ARCHITECTURES
Nature of Exam : Closed Book
Weightage : 30%
Duration : 2 Hours
Date of Exam : 24/09/2016 (FN)

No. of Pages	= 1
No. of Questions	= 4

Note:

1. Please follow all the *Instructions to Candidates* given on the cover page of the answer book.
2. All parts of a question should be answered consecutively. Each answer should start from a fresh page.
3. Assumptions made if any, should be stated clearly at the beginning of your answer.

Q.1. Choose the most appropriate architectural pattern (one) for the 5 descriptions below. Give reasons for choosing the pattern (in 1-2 line maximum)

1. Wants to split a system into a number of computationally independent execution structures (groups of software and hardware) such as database, business logic, web interface and client, connected by some communication media. The structure is chosen to provide a specific server environment optimized for operational requirements and resource usage.
2. A set of heterogeneous specialized modules which dynamically change their strategies as a response to unpredictable events, and the system has to deal with uncertain knowledge.
3. Wants a system that can be divided into reusable, loosely coupled components that can be flexibly combined and arranged to transform between various data formats.
4. Wants a distributed system with a structure that enables that service users do not need to know the nature or location of service providers.
5. A program relationship in which one program requests a service or resource from another program.

(a) Layered (b) Broker (c) Model-view-controller (d) Pipe-and-Filter (e) Client-Server
(f) Blackboard (g) Service-Oriented (h) Publish-Subscribe (i) Multi-tier [5]

Q.2. Write brief notes on followings:

- 2.1 Discuss whether this statement is true or false: "Architecture is a transferable and reusable model". [5]
- 2.2 What parameters (inputs) are typically used in models for analyzing performance? [5]
- 2.3 What is the difference between reference architecture and an architectural pattern? What can you do with one that you cannot do with other in terms of organizational planning and architectural analysis? [5]

Q.3. Write any five availability tactics for fault detection. Explain each one briefly. [5]

Q.4. What are the various forces which make Blackboard pattern more applicable for a navigation based system. [5]

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Table of Contents Zica Past Exam Papers

1. Understanding the eBook Zica Past Exam Papers
 - The Rise of Digital Reading Zica Past Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Zica Past Exam Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Zica Past Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Zica Past Exam Papers
 - Personalized Recommendations
 - Zica Past Exam Papers User Reviews and Ratings
 - Zica Past Exam Papers and Bestseller Lists

5. Accessing Zica Past Exam Papers Free and Paid eBooks
 - Zica Past Exam Papers Public Domain eBooks
 - Zica Past Exam Papers eBook Subscription Services
 - Zica Past Exam Papers Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Zica Past Exam Papers Compatibility with Devices
 - Zica Past Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Zica Past Exam Papers
 - Highlighting and Note-Taking Zica Past Exam Papers
 - Interactive Elements Zica Past Exam Papers
8. Staying Engaged with Zica Past Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Zica Past Exam Papers
9. Balancing eBooks and Physical Books Zica Past Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Zica Past Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Zica Past Exam Papers
 - Setting Reading Goals Zica Past Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Zica Past Exam Papers
 - Fact-Checking eBook Content of Zica Past Exam Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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