

**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]

# Zica Exam Papers 2013

**Mariaan Roos**



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### **Table of Contents Zica Exam Papers 2013**

1. Understanding the eBook Zica Exam Papers 2013
  - The Rise of Digital Reading Zica Exam Papers 2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Zica Exam Papers 2013
  - 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 Exam Papers 2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Zica Exam Papers 2013
  - Personalized Recommendations
  - Zica Exam Papers 2013 User Reviews and Ratings
  - Zica Exam Papers 2013 and Bestseller Lists

5. Accessing Zica Exam Papers 2013 Free and Paid eBooks
  - Zica Exam Papers 2013 Public Domain eBooks
  - Zica Exam Papers 2013 eBook Subscription Services
  - Zica Exam Papers 2013 Budget-Friendly Options
6. Navigating Zica Exam Papers 2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Zica Exam Papers 2013 Compatibility with Devices
  - Zica Exam Papers 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Zica Exam Papers 2013
  - Highlighting and Note-Taking Zica Exam Papers 2013
  - Interactive Elements Zica Exam Papers 2013
8. Staying Engaged with Zica Exam Papers 2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Zica Exam Papers 2013
9. Balancing eBooks and Physical Books Zica Exam Papers 2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Zica Exam Papers 2013
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Zica Exam Papers 2013
  - Setting Reading Goals Zica Exam Papers 2013
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Zica Exam Papers 2013
  - Fact-Checking eBook Content of Zica Exam Papers 2013
  - 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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