

**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

**Léo Pomar**



## **Zica Exam Papers 2013:**

*10 Previous Years CLAT & AILET (2013 - 2022) Topic-wise Solved Papers 6th Edition | Common Law Admission Test PYQs | Must for SLAT, LLB 2023 Law Exams*, The 6th Edition of the book 10 Previous Years CLAT AILET 2013 22 Topic wise Solved Papers consists of Topic wise questions from the past 10 years 2013 2022 question papers divided into 5 sections English Including Comprehension Elementary Mathematics Logical Reasoning General Knowledge Legal Aptitude The coverage of the papers includes CLAT NLU and AILET from 2013 to 2022 as they actually reflect the pattern of the Law exams In all there are 20 Question papers which have been provided Topic wise along with detailed solutions Practicing these questions aspirants will come to know about the pattern and toughness of the questions asked in the examination In the end this book will make the aspirants competent enough to crack the uncertainty of success in the Entrance Examination The strength of the book lies in the originality of its question papers and Errorless Solutions The solution of each and every question is provided in detail step by step so as to provide 100% concept clarity to the students     Accounting and Auditing Practices in Africa Mariaan Roos, 2017-06-28 This book comprises nine chapters drawn from the papers presented at the fourth annual conference of the African Accounting and Finance Association which took place in Somerset West South Africa in 2014 The chapters address a number of aspects of accounting ranging from the adoption of IFRS for SMEs in Africa the compliance by SMEs with IFRS for SMEs in Ghana the provision of finance to small businesses drivers of corporate failures financial regulations the audit of casinos the auditors report and investment decisions the role of government audit committees and audit fees and audit quality

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