

**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 Past Papers

**National Learning Corporation**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the National Learning Corporation text.

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Taxmann's PROBLEMS SOLUTION for Financial Reporting has been specially designed for students professionals The unique feature of this book is in terms of dividing each Ind AS into various parts and sections so that one can approach Ind AS in a systematic comprehensive manner This book will benefit students studying CA Final level of Institute of Chartered Accountants of India ICAI This book can be used for Group I Paper I Financial Reporting and Group II Paper IV GFRS It can also be used for other professional courses The Present Publication is the 3rd Edition amended by the Companies Ind AS Amendment Rules for CA Final New Syllabus authored by CA Kapileshwar Bhalla with the following noteworthy features Strictly as per the New Syllabus of ICAI Coverage of this book includes All Past Exam Questions CA Final July 2021 Exam New Syllabus Guidelines Answers Questions from Education Material Ind AS Bulletins RTPs MTPs of ICAI Questions based on Amendments as per Companies Ind AS Amendment Rules 2020 Additional questions based on Ind AS 38 New additional problems solutions are given in a separate booklet Enabling Students to Acquire Conceptual Base through Variety of Questions In each chapter various sections with Para No references of the Ind AS have been kept so that the students understand the types of problems they can confront in the exam Layout of each Chapter is as follows Graded Problems From simple problems to advanced problems they are arranged in a chronological manner Logical Flow Each chapter is further sub divided into various sections to develop the concepts in a logical flow Table of Index Each Chapter has a table of index for quick reference indicating the no of questions in each section and para no of Ind AS Also Available 7th Edition of Taxmann's Students Guide to Ind ASs 5th Edition of Taxmann's Financial Reporting Set of 2 Vols 4th Edition of Taxmann's CRACKER cum Exam Guide on Financial Reporting New Syllabus 1st Edition of Taxmann's CLASS NOTES on Financial Reporting The contents of this book are as follows Ind AS 1 Presentation of Financial Statements Roadmap for Implementation of Ind AS Ind AS 34 Interim Financial Reporting Ind AS 7 Statement of Cash Flows Ind AS 115 Revenue from Contracts with Customers Ind AS 8 Accounting Policies Changes in Accounting Estimates and Errors Ind AS 10 Events after the Reporting Period Ind AS 113 Fair Value Measurement Ind AS 20 Accounting for Government Grants and Disclosure of Government Assistance Ind AS 102 Share Based Payments Ind AS 101 First Time Adoption of Ind AS Ind AS 2 Inventories Ind AS 16 Property Plant Equipment Ind AS 116 Leases Ind AS 23 Borrowing Costs Ind AS 36 Impairment of Assets Ind AS 38 Intangible Assets Ind AS 40 Investment Property Ind AS 105 Non Currents Assets Held for Sale and Discontinued Operations Ind AS 41 Agriculture Ind AS 19 Employee Benefit Ind AS 37 Provisions Contingent Liabilities and Contingent Assets Ind AS 12 Income Taxes Ind AS 21 The Effects of Changes in Foreign Exchange Rates Ind AS 24 Related Party Disclosures Ind AS 33 Earnings Per Share Ind AS 108

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