

Hall Ticket Number :

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R11/R13

Code: 1G481

IV B.Tech. II Semester Regular & Supplementary Examinations April 2017

Software Architecture and Design Patterns

(Information Technology)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks** each)

1. a) What is S/W Architecture? Explain the Architecture Business Cycle. 7M
b) Write about Architect's Influences? 7M
2. Explain Evolutionary Delivery Life Cycle model and uses of Architectural documentation 14M
3. Explain how S/W architecture evaluation will be done using Architecture Tradeoff Analysis Method (ATAM) 14M
4. a) Explain S/W architecture in future 7M
b) Explain building system from off the shelf components 7M
5. What is a Design Pattern? Explain Describing design pattern and organizing the catalog? 14M
6. Explain the following patterns
a) Singleton 7M
b) Facade 7M
7. a) What are the Behavioral patterns? 7M
b) Explain motivation, applicability, structure, consequences and known uses of following design patterns
i. Interpreter
ii. Iterator 7M
8. Explain interoperability using a case study World Wide Web 14M

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R11/R13

Code: 1G483

IV B.Tech. II Semester Regular & Supplementary Examinations April 2017

Service Oriented Architecture and Cloud Computing

(Information Technology)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks** each)

1. a) Differentiate between cloud computing and grid computing? 7M
b) Explain the benefits of virtualized technology? 7M
2. a) Explain about software virtualization? 7M
b) Write brief notes on ubuntu? 7M
3. a) Explain about Intel virtualization technology? 7M
b) What are storage virtualization technologies? 7M
4. a) What is virtualization? Explain about business value for virtualization? 4M
b) How performance can be improved through virtualization? 10M
5. a) What is cloud computing? What are the benefits and limitations of cloud computing? 7M
b) Explain about cloud infrastructure models? 7M
6. a) Differentiate between cloud and grid computing? 7M
b) Differentiate between on demand computing and distributed computing? 7M
7. List out security issues in cloud computing? 14M
8. a) Explain about disasters in the cloud? 7M
b) Write a brief notes on the following
i) amazon S3
ii) Google APP Engine 7M

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R11/R13

Code: 1G485

IV B.Tech. II Semester Regular & Supplementary Examinations April 2017

Network Management Systems

(Information Technology)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questions

All Questions carry equal marks (**14 Marks** each)

1. Categorize the five major functional areas of network management defined by ISO and summarize the steps involved in those areas. 14M
2. a) Write a note on management information trees 7M
b) Describe the structure of management communication transfer protocol 7M
3. What is aggregate object? Explain the aggregate object as columnar object (RPC 1212) 14M
4. Let consider three different users namely public (access system group), privileged (access MIB) and exclusive (access read- write). Draw a figure for solving the path from the SNMP managers to managed objects of network component. 14M
5. a) Details the SNMP V2 network management Architecture on Multiple Transport Domain. 7M
b) Describe the Trap and InformRequest PDU operations with respect to SNMP V2 7M
6. a) What are the relationships between control and Data tables in RMoN? 4M
b) Write short notes on ATM Remote Monitoring. 10M
7. Portray the functionality of the following in Telecommunication Management System (TMS).
a) MoM NMS
b) Agent NMS 14M
8. a) Compare MMDS network with LMDS network.
(MMDS – Multipoint Multichannel Distribution Services, LMDS – Local Multipoint Distribution Services) 7M
b) List out the advantages of XML based specific management system. 7M

Code: 1GA81

IV B.Tech. II Semester Regular & Supplementary Examinations April 2017

Management Science

(Information Technology)

Max. Marks: 70

Time: 3 Hours

Answer any **five** questionsAll Questions carry equal marks (**14 Marks** each)

1. a) What is Taylor's scientific management? List its contributions and limitations to management. 7M
 b) Write a short notes on
 (i) Systems approach to management
 (ii) Management science approach to management 7M
2. A process that is in control has a mean $\mu = 12.5$ and a standard deviation of $\sigma = 0.8$.
 (i) Construct the x-control chart for the above process if samples of size of 4 are to be used.
 (ii) What happens to the limits of the control chart as the sample size is increased. 14M
3. a) What are the stages of product life cycle (PLC)? Explain. 7M
 b) Explain the significance of the marketing communication through the elements of marketing mix. 7M
4. a) What are the main functions of HR manager? Explain. 7M
 b) "The HRM practices enable the competitive advantage for a company". Comment. 7M
5. a) Differentiate between PERT and CPM. 7M
 b) Explain the any three of the following
 (i) Concurrent activity
 (ii) Dummy activity
 (iii) Merge and burst event
 (iv) Predecessor and Successor activity. 7M
6. a) Explain the corporate planning process with neat diagram. 7M
 b) Write short note on
 (i) Value Chain Analysis
 (ii) SWOT analysis 7M
7. a) What is the purpose of management information system (MIS)? How does MIS support the management explain? 7M
 b) What is Enterprise Resource Planning (ERP)? Explain the strength of ERP in Supply Chain Management. 7M
8. a) What is the need and importance of corporate social responsibility for a business entity? 7M
 b) What is the need and importance of business ethics? How should organizations and managers respond to ethical issues in the global context? 7M
