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<b>R11</b>
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**Code: 1G481**

*IV B.Tech. II Semester Advanced Supplementary Examinations June 2016*

**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)

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1. Explain the relationships of reference models, architectural patterns, reference architectures and software architectures? 14M
  
2. Explain the following 14M
  - a) System quality attributes 5M
  - b) Business quality attributes 5M
  - c) Architecture quality attributes 4M
  
3. Explain about the Cost benefit analysis method (CBAM) 14M
  
4. What is meant by S/W product lines? What makes S/W product lines work and what makes S/W product lines difficult? 14M
  
5. Explain how design patterns solve design problems? 14M
  
6. a) Compare Creational and Structural patterns. 7M  
b) What is the motivation, collaboration and consequences of building design patterns? 7M
  
7. Explain about the Observer design pattern in detail. 14M
  
8. Explain designing for high availability using a case study "Air Traffic control" 14M

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Hall Ticket Number :

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**R11**

**Code: 1G485**

*IV B.Tech. II Semester Advanced Supplementary Examinations June 2016*

## **Network Management Systems**

( Information Technology )

Max. Marks: 70

Time: 3 Hours

Answer *any five* questions

All Questions carry equal marks (14 Marks each)

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1. a) Explain the basic communication architecture between the users and applications.  
b) What is the goal of network management? Explain.
2. a) Explain the two-tier organization model of the SNMP management.  
b) Explain the structure of management information in detail.
3. a) What are the four access modes in the SNMP community profile? Explain.  
b) Explain get-next-request PDU operation of the SNMP operations.
4. With a neat diagram explain the SNMPv2 network management architecture.
5. Explain briefly about the ATM remote monitoring.
- 6 a) Differentiate the functionalities of TMN physical architecture with the TMN information architecture.  
b) Explain different TWN management services and functions.
- 7 a) Write a short note on enterprise management.  
b) Give brief description about the network traffic monitoring tools.
8. Give brief description about the web interface and web management.

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