

Sem. VIIIth, Comp. (Rev), 31/05/2014
Advanced Internet Tech.

QP Code : MV-19057

(3 Hours)

[Total Marks : 100

N. B. : (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions out of remaining **six**.

1. (a) Explain working of a search engine 10
(b) Discuss working of DHCP (Dynamic Host Configuration Protocol) and give its packet format 10
2. (a) What is AJAX? Explain its role in web applications with example 10
(b) Describe Virtual Private Network (VPN) and state its usefulness 10
3. (a) Explain working of File Transfer Protocol (FTP) with suitable diagram 10
(b) What is a web service? Explain its architecture 10
4. (a) Discuss various security issues in cloud 10
(b) Explain working of Bittorrent (Peer to peer architecture) 10
5. (a) What is RSS? Explain its advantages 10
(b) Describe various deployment techniques in cloud computing. 10
6. (a) Give working of Amazon cloud 10
(b) What is resource oriented architecture (ROA)? Explain its different features / properties. 10
7. Write a short note on (any two) :- 20
 - (a) HTML 5
 - (b) Integrating PHP and AJAX
 - (c) Secure payment mechanism.



Con. 10057-14.

Q P Code : MV-19129

[Total Marks : 100

(3 Hours)

- N.B. :** (1) Question No. 1 is compulsory.
(2) Attempt any four questions from the remaining.

1. (a) What are different types of connectors based on interactive services? 5
(b) What do you mean by Architectural degradation? Explain architectural drift and architectural degradation? 5
(c) Differentiate between Software Architecture and Software Design. 5
(d) Explain how Middleware and component framework induces Architectural Styles. 5
2. (a) Design a Domain Specific Software Architecture (DSSA) for the Airline Ticket Management System. Assume suitable entities, Attributes etc. Domain model must consist of the following :
(i) Domain Dictionary and Information Model 10
(ii) Feature Model and Operation Model 10
3. (a) List various Architectural Styles? Explain any two in detail? What is the difference between Architectural Styles & Architectural patterns. 10
(b) Explain with an examples Stakeholder driven modeling. 10
4. (a) Explain the various features of xADL used as a modeling language. 10
(b) Explain MVC Architectural pattern and give an example of an application where it is used. 10
5. (a) What is REST? Explain its Architecture. 10
(b) With the help of example explain different types of inconsistencies in an Architectural model. 10
6. (a) What is a mapping problem in implementation? Differentiate between one way and round trip mapping. 10
(b) Explain different criteria for evaluating implementation frame work. 6
(c) Explain simulation based framework. 4
7. Write short notes on the following :- 20
(a) Ambiguity, Accuracy and precision in the characterization of Architectural models.
(b) Different dimensions of dependability
(c) Design issues for NFPs:-Complexity, Heterogeneity
(d) Lightweight C2 framework.



