Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

M. E. - SEMESTER – III • EXAMINATION – WINTER 2012

Sul	oject	code: 730202 Date: 26/12/2012	
Sul	oject	Name: Advanced Internet Technology	
		0.30 am – 01.00 pm Total Marks: 70	
Ins	truc	tions:	
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	What is cookie? Give its advantage and significant over internet communication. Why cookie is vulnerable for the user?	07
	(b)	Explain the word 'protocol'. Name at least three protocols in each layer of TCP/IP model. And describe their functionalities brief.	07
Q.2	(a)	What is session hijacking? How it is possible? Explain in detail with appropriate diagram.	07
	(b)	Differentiate Cookie and session.	07
		OR	
	(b)	What is XML? Explain its advantage and significance. Write an XML script to store student's book database.	07
Q.3	(a)	What is internet? Draw and explain architecture of it.	07
	(b)	Create DNS server and client program with using appropriate socket API. OR	07
Q.3		What is electronic Commerce? Explain each type in detail.	07
	(b)	Describe CGI script? Where does it execute? Explain four CGI environment variable set by the server.	07
Q.4	(a)	What is socket? Explain its role over client and server programming. Describe the API for TCP communication.	07
	(b)	Explain Centralized systems and Client server systems. OR	07
Q.4	(a)	What is proxy server? Explain each type in detail.	07
	(b)	What are the types of attacks in terms of security? Explain DOS attack on server.	07
Q.5	(a)	What are web-crawlers? Explain High-level architecture of a standard Web-crawler.	07
	(b)	What is web search engine? How web search engines work. Name at least four search engine which exist in today's internet world. OR	07
Q.5	(a)	Explain database access parallelism. Differentiate Inter-query and Intra-query parallelism,	07
	(b)	Explain following terms. 1) Web server 2) Encryption 3) smart card 4) firewalls.	07
