Assignment

Q1. In application layer protocol defines how the application processes running on different systems, pass the messages to each other.

each other.

- DNS stands for Domain Name dystem.

- DNS is a directory service that provides a mapping between the pame of a host on the network and its numerical address.

- DNS is required for the functioning of the internet.

- Each node in a tree has a domain name, and a full domain name is a sequence of symbols specified by data.

- DNS is a service that translates the domain name into IP

DNS 15 a TCP/IP protocol used on different platforms. The domain name spaces is divided into 3 different sections: generic, country ? inverse domains.

CRENERIC DOMAIN

- Defines the registered hosts according to their generic behaviour.

- lack node in a tro defines the domain name, which is an index to the DNS database

- Ituses 3 - character labels and these labels cleverilee the organizational type.

COUNTRY DOMAIN The format is same as generic domain, but it uses 2-of character country abbrevation.

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	INVERSE DOMAIN Used for mapping an address to a name. When the Derver ha recieved a request from the client, and the server contained a request from the clients.					
	rocioned a regues	authorized clients.	and the state of t			
	() ()					
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	is used	scup) compare (source)	· · · · · ·			
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	Louts and sometin	sump! Sump	NMS			
	MIB DATABASE	SNMP! INTERNET/ COMMANDE	NMS			
	MIB DATABASE	SNMP! INTERNET/ COMMANDE	NMS			
	MIB DATABASE	SNMP! INTERNET/ COMMANDE	NMS			
	MIB DATABASE	SNMP! INTERNET/ COMMANDE	NMS SNMP MANAGER			

Components of SNMP
Thurare 4 main components in an SNMP-managed network:

- SNMP Agent: doft more maragement Doftware module installed on a managed device. Maraged devices can be network devices like PC, Router etc.
- 2. SNMP Manager [NMS]: Centralised system used for to monitor network.
- 3. SNMP-maraged devices: Nodes on which devices han agents run.
 - 4. Management Information Base [MIB]: Consist of information of resources that are to be managed. These are organised hierarchically. It consist of alijects instances which are essentially variables.
 - b. SMTP dimple Mail Transfer Protocol is the procedure behind the email flow on the internet.
 - Its an Application Level / Connection Oriented / Jext Based Protocol.
 It handles exthange of messages between C-mail servers over TCP/IP

 - It also provides notification regarding incoming mail.

 When you send e-mail, your e-mail client sends it to your e-mail

 Derver for further contacts the recepent mail server using SMTP

 client.
 - These commands specify the senders & regions address along with message to be sent. The sochange of commands between avers servers is coursed out without any user intervention.

Q3.	WWW ARCHITECTURE				
	USER INTERFACE AND APPLICATIONS				
	CRYPTOGRAPH	IY TRU	ST		
`		PROOF	(0)	X	
	QUERYING:	ONTOLOGIES:	RULES:	7	
	SPARQL	OWL	KIT/SWAL	4 %	
		TAXANOMITES	: KDFS	R A	
	DATA INTERCHANGE: RDF			ATAX	
	SMITAY: XML				
	I DE NTIFIERS : URL CHARACTER SET : UNICODE				
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Paga No.: Data. 5 Ontologies

OWL[Web Ontology Larguage] offers more constructs over RDFS. It comes in 3 versions:

- OWL DL for full description logic support. - OWL for more syntactic freedom of RDF.

RIF and SWRL offors rules beyond the constructs that are available from RDF's and OWL SPARQL[Simple Photocal 4 RDF Query Larguage I is SQL like language used for quering RDF data and & OWL entologies.

7. Proof.
All semantic and rules that o are escented at layers holow Proof and their rosult will be used to prove deductions.

8. Cryptography Digital signatures for verification of the origin of source is used.

9. User Interface & Applications Built for User Interaction.

BOOTP DHCP 04. 1. Stands for BOOTstrap Protocol. Standsfor Dynamic Host Configuration Protocol Provides temporary IP addressing for only limited amount of time. 2. Does not prouide temporary IP addressing. Support BOOT Pclants. 3. Doesnot suppost DHCP clients Auto configuration takes place 4 Monical configuration takes place: Supports mobile machines. 5 Joes not support mobile machines. 6. Conhaus orrors dev to manual-configuration. Everors do not occur duote anto configuration.