Seat No. _____ Enrl. No. _____

KADI SARVA VISHWAVIDHYALAYA

BE SEMESTER-IV Examination OCT-2015

Subject Code: CE402

Subject Name: Computer Network

Date: 26/10/2015 **Time: 10:30am-01:30pm** **Total Marks: 70**

Instructions:

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

Q-1 (A) Compare peer to peer & client-server network architecture. [5]

(B) Explain TCP header fields in detail. [5]

(C) Differentiate between TCP and UDP. [5]

OR

(C) Discuss ARPANET IN DETAIL. [5]

Q-2 (A) Explain DNS in detail. [5]

(B) Explain ALOHA Protocol with its variety. [5]

OR

(A) What is resource record? How it is useful for DNS. [5]

(B) Explain sub netting? For a network address 192.168.10.0 and subnet mask 255.255.255.224 then calculate: [5]

i. No of subnet and no of host

ii. Valid subnets.

Q-3 (A) Explian transmission policy w.r.t. Sliding windows protocol [5]

(B) Explain working principle of CSMA. [5]

OR

(A) What is LAN and basic issues for network design? Write its features and components. [5]

(B) What is frame? Explain frame structure in detail. [5]

Section-II

Q-4 (A) What is Switching? Explain packet switching. [5]

(B) Expalin contension, congestion, collision in brief. [5]

(C) Which are the WAN technologies? Explain ATM in brief. [5]

OR

(C) List out issues related to Security Management. [5]

Q-5 (A) Explain Leaky bucket Algorithm. [5]

(B) What is Firewall? Why it is used in network management. [5]

OR

(A) What is SONET? Explain its Layers in short. [5]

(B) Explain DQDB with architecture. [5]

Q-6 (A) List out issues related to security management. [5]

(B) What is routing? How the Router works? [5]

OR

(A) Short note on VLANs. [5]

(B) Explain Network management system with diagram. [5]

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KADI SARVA VISHWAVIDHYALAYA

BE SEMESTER-IV Regular Examination MAY-2014

Subject Code: CE-402

Subject Name: Computer Networking

Date: 12/05/2014 **Time:10:30 am. to 1:30 pm.** **Total Marks: 70**

Instructions:

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

Q-1	(A)	Discuss Network & Networking w.r.t. computer networking	[5]
	(B)	Explain interconnecting devices of bottom three layers	[5]
	(C)	List difference between transport layer and network layer	[5]
		OR	
	(C)	Compare control access and random access	[5]
Q-2	(A)	Explain IP packet header fields	[5]
	(B)	Connection oriented vs. Connectionless services	[5]
		OR	
	(A)	Variety of Ethernet w.r.t. communication medium	[5]
	(B)	Compare IPv4 and IPv6 header	[5]
Q-3	(A)	Explain DNS in detail?	[5]
	(B)	Compare Frame relay and X.25	[5]
		OR	
	(A)	Explain subneting with an example	[5]
	(B)	Which kinds of services can be provided by DQDB and how MAC protocol works?	[5]

Section-II

Q-4	(A)	compares AM & FM with different characteristics	[5]
	(B)	what is multiplexing?, Describe Frequency division multiplexing	[5]
	(C)	Explain Fiber optic media in brief explain	[5]
		OR	
	(C)	Explain checksum with an Example	[5]
Q-5	(A)	list unguided transmission media and explain any one in detail	[5]
	(B)	what is error correction?, explain hamming distance with an example	[5]
		OR	
	(A)	Guided transmission media w.r.t. copper media only	[5]
	(B)	Explain CRC with an example	[5]
Q-6	(A)	Describe network IP classes with default subnet mask	[5]
	(B)	Explain DTE-DCE with necessary figure.	[5]
		OR	
	(A)	What is routing? Explain Dijkstra's algorithm	[5]
	(B)	List out networking devices and give it's functionality in short.	[5]

---Best of Luck---

KADI SARVA VISHWAVIDHYALAYA

BE SEMESTER-IV ATKT Examination NOV-2014

Subject Code: CE-402

Subject Name: Computer Networking

Date: 3-11-14 **Time:** 3 Hrs. **Total Marks: 70**

Instructions:

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

Q-1 (A) What is topology? List out Various networking topologies and explain any two of them [5]

(B) What is frame? Explain frame structure in detail [5]

(C) Token ring & Token bus [5]

OR

(C) Explain client-server network architecture with diagram [5]

Q-2 (A) Explain Internet control protocols [5]

(B) Connection oriented vs. Connectionless services [5]

OR

(A) History of TCP /IP [5]

(B) Short note on SONET [5]

Q-3 (A) Explain: Bridge, Switch and HUB [5]

(B) Draw TCP header fields and discuss in short [5]

OR

(A) What is LAN and basic issues for network design? Write its features [5]

(B) Explain working principle of CSMA [5]

Section-II

Q-4	(A)	Explain Leaky bucket	[5]
	(B)	Explain subneting with any example	[5]
	(C)	Explain contention, congestion, collision	[5]
		OR	
	(C)	What is resource record? How it is useful for DNS	[5]
Q-5	(A)	Which are the WAN requirements?	[5]
	(B)	Explain DQDB with architecture	[5]
		OR	
	(A)	Explain Network management system with diagram	[5]
	(B)	Why security is important for network management?	[5]
Q-6	(A)	What is Firewall , why it is used in network management	[5]
	(B)	Short note on Proxy servers.	[5]
		OR	
	(A)	Distinguish remote monitoring technique: polling & traps	[5]
	(B)	List out issues related to performance management	[5]

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KADI SARVA VISHWAVIDHYALAYA

BE SEMESTER-IV ATKT Examination NOV-2014

Subject Code: IT-402

Subject Name: COMPUTER NETWORKING

Date: 3-11-14 **Time:** 3 Hrs. **Total Marks: 70**

Instructions:

1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

Q-1	(A)	List difference between transport layer and network layer	[5]
	(B)	Differentiate X.25 and Frame relay networks	[5]
	(C)	Discuss ARPANET and evolution	[5]
		OR	
	(C)	Variety of Ethernet w.r.t. communication medium	[5]
Q-2	(A)	Explain IEEE 802.11 standard	[5]
	(B)	Compare control access and random access	[5]
		OR	
	(A)	List out IEEE standards, each with single line explanation	[5]
	(B)	Compare TCP and UDP	[5]
Q-3	(A)	Explain inter connecting devices of bottom three layers	[5]
	(B)	Compare packet switching and circuit switching	[5]
		OR	
	(A)	Sketch flow diagram of CSMA/CD	[5]
	(B)	Congestion control vs Flow control	[5]

Section-II

Q-4	(A)	Pros and cons of slotted ALOHA	[5]
	(B)	Explain transmission policy w.r.t. Sliding windows protocol	[5]
	(C)	Explain DNS in details	[5]
		OR	
	(C)	What is routing?, How the Router works?	[5]
Q-5	(A)	Explain Distance vector routing	[5]
	(B)	What is resource record? How it is useful for DNS	[5]
		OR	
	(A)	Which are the WAN technologies? Explain ATM	[5]
	(B)	Explain DQDB with architecture	[5]
Q-6	(A)	Is it provide security from virus?, list out features of firewall	[5]
	(B)	List out issues related to security management	[5]
		OR	
	(A)	List out advantages of SNMP in network management	[5]
	(B)	Pros & cons of Firewall	[5]

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KADI SARVA VISHWAVIDHYALAYA

B.E. Semester- IV (IT)

DATE : 30/4/2015 **TOTAL MARKS : 70**
TIME : 10:30 TO 1:30 P.M **SUBJECT CODE: IT-402**

COMPUTER NETWORKING

Instructions:

1. **Attempt all Questions.**
2. **Figures to the right indicate full marks.**
3. **Indicate clearly, the options you attempt along with its respective Que.No.**
4. **Answer with neat sketches/block diagrams/flow charts, as required.**
5. **Answer each section in separate Answer sheet.**

Section – I

Q-1	A	What are the benefits of layering approach in OSI model? Draw diagram of TCP/IP model.	5
	B	Explain ARPANET.	5
	C	Explain types of network with its applications.	5
		OR	
	C	Compare the following topologies 1. Star and Ring 2. Bus and Tree	5
Q-2	A	Compare pure and slotted ALOHA	5
	B	Explain Ethernet LAN standard.	5
		OR	
Q-2	A	What is the functionality of CSMA/CD .	5
	B	Explain IEEE 802.4 standard.	5
Q-3	A	Describe different LAN components.	5
	B	Explain UDP.	5
		OR	

P.T.O.

Q-3 A Explain usage of following devices. 5

1. Repeater
2. Bridge
3. Gateway
4. Routers

B Explain TCP. 5

Section-II

Q-4 A Find the network address for each address. 5

1. 245.7.76.22
2. 100.34.21.5
3. 190.2.4.78
4. 23.67.12.1
5. 132.56.8.6

B Explain subnetting with diagram 5

C Explain components of SMTP. 5

OR

C Explain POP. 5

Q-5 A Explain routing for Ad-Hoc networks. 5

B Explain SONET layers. 5

OR

Q-5 A Explain the following: 5
Jitter Control, Load Shedding, Warning Bit

B Explain Leaky Bucket algorithm. 5

Q-6 A Explain different remote monitoring techniques. 5

B What is QOS in networks? Explain its elements. 5

OR

Q-6 A Describe client server architecture with its application. 5

B How to achieve best network performance? 5

********BEST OF LUCK********