

COMPUTER NETWORKS (CS3103PC)

9. Previous Question Papers

Code No: 115DT

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year I Semester Examinations, March - 2017

COMPUTER NETWORKS

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- | | |
|--|-----|
| 1.a) What is the use of datalink layer ? | [2] |
| b) What is ARP? Explain. | [3] |
| c) Explain about Broadcast link. | [2] |
| d) Give the classification of multiple access protocols. | [3] |
| e) Write any two services network layer provides to transport layer. | [2] |
| f) Explain about datagram and virtual circuit. | [3] |
| g) What is internetworking? | [2] |
| h) List out the internetworking devices. | [3] |
| i) What is the role of UDP in internet transport protocol? | [2] |
| j) What is TELENET? | [3] |

PART-B

(50 Marks)

- | | |
|--|------|
| 2. Explain about various transmission media in physical layer with a neat sketch. | [10] |
| OR | |
| 3. Elaborate on the design issues of data link layer. | [10] |
| 4. Write in detail on Time-Division Multiplexing and Frequency-Division Multiplexing with an example for each. | [10] |
| OR | |
| 5. Write and explain about various multiple access protocols. | [10] |
| 6. Explain the Optimality Principle with a suitable example. | [10] |
| OR | |
| 7. Explain distance vector routing algorithm. | [10] |
| 8. What happens when large packet wants to travel through network with smaller maximum packet size? Explain. | [10] |
| OR | |
| 9. Explain tree-structured numbering scheme. | [10] |
| 10. Explain about RPC with a neat sketch. | [10] |
| OR | |
| 11. What is DNS? What are the services provided by DNS and explain how it works. | [10] |

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Code No: 115DT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech III Year I Semester Examinations, February/March - 2016

COMPUTER NETWORKS

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

Part- A

(25 Marks)

- | | |
|---|-----|
| 1.a) What is meant by protocol. | [2] |
| b) What is piggybacking? | [3] |
| c) Define bridge. | [2] |
| d) Describe in brief about Types of Ethernet cabling. | [3] |
| e) What is virtual circuit? | [2] |
| f) What are the issues in routing? | [3] |
| g) Define Tunneling. | [2] |
| h) List out the socket primitives for TCP. | [3] |
| i) Define URL. | [2] |
| j) List out different types of HTML Tags. | [3] |

Part-B

(50 Marks)

- | | |
|--|-------|
| 2.a) Write any four reasons for using layered protocols. | |
| b) Explain the functionality of each layer in OSI reference model. | [5+5] |

OR

- | | |
|---|-----------|
| 3. Explain in brief about the design issues in the data link layer. | [10] |
| 4. Explain the functions of following devices: | |
| a) Hub | |
| b) Bridge | |
| c) Router | |
| d) Gateway | [3+2+3+2] |

OR

- | | |
|--|-------|
| 5.a) What are the functions of medium access control layers protocol? Explain. | |
| b) Explain IEEE 802.3 standard for Ethernet with the help of frame format. | [5+5] |
| 6.a) The major problem with distance vector algorithm is 'count to infinity'. How exchange of complete path from router to destination instead of delay, helps in solving count to infinity problem. | |
| b) What are the advantages of adaptive routing approach over non adaptive routing? | [5+5] |

OR

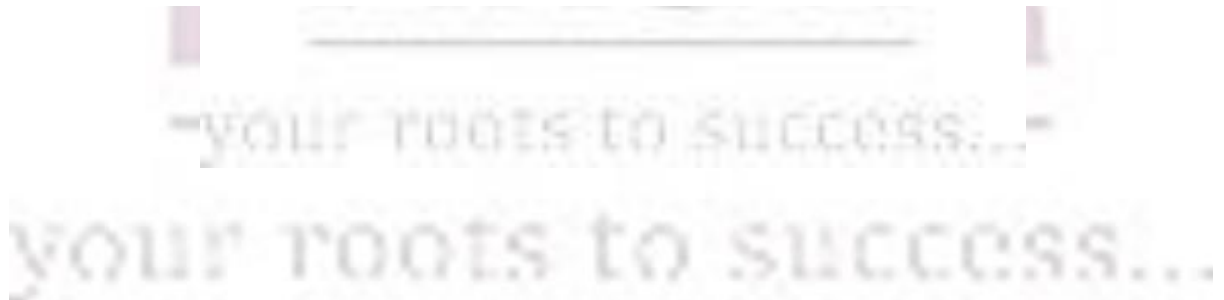
- | | |
|--|--|
| 7. Describe Dijkstra shortest path algorithm. Also show working of Dijkstra algorithm with the help of an example [10] | |
|--|--|

COMPUTER NETWORKS (CS3103PC)

- 8.a) Explain in brief about TCP connection establishment and Release.
b) Describe in brief about TCP segment Header. [5+5]
- OR**
9. Explain the elements of a Transport protocol? [10]
10. What is electronic mail? Describe in brief about sending and receiving e-mail. [10]
- OR**
- 11.a) Define HTML? Discuss in brief about Common HTML Tags.
b) What is HTTP? Describe in brief about HTTP request methods. [5+5]

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COMPUTER NETWORKS (CS3103PC)

R13

Code No: 115DT

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year I Semester Examinations, November/December - 2016

COMPUTER NETWORKS

(Common to CSE, IT)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) What is Frame Relay? [2]
- b) Write about communication satellites. [3]
- c) Define time domain reflectometry. [2]
- d) Difference between Pure ALOHA and slotted ALOHA. [3]
- e) Write about Jitter control. [2]
- f) Write down the design issue of network layers. [3]
- g) Write about Tunneling. [2]
- h) What are the concepts of extension header in IPv6? [3]
- i) Compare RPC and RTP. [2]
- j) How does persistence timer is useful in TCP ? [3]

PART - B

(50 Marks)

2. Explain and demonstrate Selective repeat sliding window Protocol with an example. [10]
- OR**
- 3.a) Write short notes on Wireless Transmission. [3]
- b) Describe in detail about Lightwave transmission. [7]
4. What is the purpose of CSMA CD? And Explain it. [10]
- OR**
5. Explain about the following:
a) Spanning Tree Bridge
b) Remote bridge. [5+5]
6. Write briefly about Congestion control in datagram subnets. [10]
- OR**
7. Write an example, demonstrate how to make routing table using distance vector routing. And list down the limitation. [10]
8. How would you describe the operation of Address resolution protocol? [10]
- OR**
9. Explain in detail about crash recovery. [10]
10. How would you summarize the concept of E-mail, its architecture and services? [10]
- OR**
11. Describe in detail about TCP segment header and connection Establishment. [10]

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Q.P Code: AM3203PC

Hall Ticket No.:

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NARSIMHA REDDY ENGINEERING COLLEGE
(UGC AUTONOMOUS)

MODEL QUESTION PAPER

III B.TechI Semester (NR10) Regular Examination, January 2023

COMPUTER NETWORKS
(COMPUTER SCIENCE ENGINEERING)

Time:3 hours

Maximum marks:75

- Note:**
- This question paper contains two parts A and B
 - Part A is compulsory which carries 25 marks (1st 5 sub questions are one from each unit carry 2 Marks each & Next 5 sub questions are one from each unit carry 3 Marks). Answer all questions in Part A
 - Part B Consists of 5 Units. Answer any one full question from each unit. Each question carries 10 Marks and may have a, b sub questions

PART-A
ALL QUESTIONS NEED TO BE ANSWER

Maximum marks:25

Q.No	Question	M	CO	BL	PO
1)	a. List the difference between logical, physical and portaddress.	2	CO1	L1	PO1
	b. Data link protocols almost always put the CRC in a trailer,rather than in a header. Why?	2	CO2	L4	PO2
	c. How congestion avoidance is different from congestioncontrol.	2	CO3	L2	PO2
	d. Explain UDP	2	CO4	L1	PO1
	e. Explain about HTTP.	2	CO5	L1	PO1
	f. State three difference between OSI and TCP/IP model	3	CO1	L3	PO2
	g. What is ARQ and explain its importance.	3	CO2	L1	PO1
	h. Explain Flooding	3	CO3	L1	PO1
	i. What is the difference between network layer delivery andthe transport layer delivery?	3	CO4	L3	PO2
	J Write down the three types of WWW documents	3	CO5	L1	PO1

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Part-B(50 Marks) Answer any five questions

Q.No	Question	M	CO	BL	PO
UNIT-I					
2)	a.	5	CO1	L1	PO1
	b.	5	CO1	L1	PO1
OR					
3)	a.	5	CO1	L1	PO2
	b.	5	CO1	L1	PO1
UNIT-II					
4)	a.	5	CO2	L1	PO1
	b.	5	CO2	L1	PO1
OR					
5)	a.	5	CO2	L3	PO1
	b.	5	CO2	L1	PO1
UNIT-III					
6)	a.	5	CO3	L1	PO1
	b.	5	CO3	L1	PO1
OR					
7)	a.	5	CO3	L1	PO1
	b.	5	CO3	L3	PO1
UNIT-IV					
8)	a.	5	CO4	L1	PO1

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	b.	Explain the operation of TCP with neat sketch.	5	CO4	L1	PO1
OR						
9)	a.	Write short notes on performance issues of transport layer	5	CO5	L1	PO1
	b.	Write short notes on User Datagram Protocol (UDP).	5	CO4	L1	PO1
UNIT-V						
10)	a.	Explain how security is provided in interact operations in detail	5	CO5	L1	PO2
	b.	Write briefly about World wide web	5	CO5	L2	PO1
OR						
11)	a.	Explain briefly simple network management protocol	5	CO5	L3	PO1
	b.	Discuss the File transfer Protocol (FTP)with a neat diagram.	5	CO5	L1	PO2

M – Marks **CO** – Course Outcomes **PO** – Program Outcomes

BL – Bloom's Taxonomy Levels (**L1**–Remembering, **L2**–Understanding, **L3**–Applying, **L4**–Analyzing, **L5**–Evaluating, **L6**–Creating)