

NARSIMHA REDDY ENGINEERING COLLEGE UGC AUTONOMOUS INSTITUTION

Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana State, India

UGC - Autonomous Institute
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School of Computer Science & Engineering

Previous Question Papers

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) What is the use of datalink layer?
What is ARP? Explain.
Explain about Broadcast link.
Give the classification of multiple access protocols.
Write any two services network layer provides to transport layer.
Explain about datagram and virtual circuit.
What is internetworking?
List out the internetworking devices.
What is the role of UDP in internet transport protocol?
What is TELENET? e) f) g) h) i) j) PART-B (50 Marks) Explain about various transmission media in physical layer with a neat sketch. Elaborate on the design issues of data link layer. 3. Write in detail on Time—Division Multiplexing and Frequency-Division Multiplexing with an example for each. [10] Write and explain about various multiple access protocols. [10] 6. Explain the Optimality Principle with a suitable example. **OR** [10] Explain distance vector routing algorithm. 7. What happens when large packet wants to travel through network with smaller maximum packet size? Explain. [10] 9.Explain tree-structured numbering scheme. [10] 10.Explain about RPC with a neat sketch. OR 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] Define Tunneling. g) [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]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 What are the functions of medium access control layers protocol? Explain. 5.a) Explain IEEE 802.3 standard for Ethernet with the help of frame format. [5+5] b) 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.
- What are the advantages of adaptive routing approach over non adaptive routing?

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

.a)	Explain in brief about TCP connection establishment and Release.	
b)	Describe in brief about TCP segment Header.	[5+5]
	OR	
	Explain the elements of a Transport protocol?	[10]
0.	What is electronic mail?Desribe in brief about sending and receiving OR	e-mail.[10]
1.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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Code No: 115DT JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year I Semester Examinations, November/December - 2016 COMPUTER NETWORKS

	COMPUTER NETWORKS (Common to CSE, IT)	
Time:		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 consists of 5 Units. Answer any one full question from each unit. Each quest 10 marks and may have a, b, c as sub questions.	
	PART - A	25 Marks)
1.a) b) c) d) e) f) g) h) i)	What is Frame Relay? Write about communication satellites. Define time domain reflectometry. Difference between Pure ALOHA and slotted ALOHA. Write about Jitter control. Write down the design issue of network layers. Write about Tunneling. What are the concepts of extension header in IPv6? Compare RPC and RTP. How does persistence timer is useful in TCP?	[2] [3] [2] [3] [2] [3] [2] [3] [2] [3] [2]
	PART - B	
2.	Explain and demonstrate Selective repeat sliding window Protocol with an ex	50 Marks) ample. [10]
3.a) b)	Write short notes on Wireless Transmission. Describe in detail about Lightwave transmission.	[3+7]
4.	What is the purpose of CSMA CD? And Explain it. OR	[10]
5.	Explain about the following: a) Spanning Tree Bridge b) Remote bridge.	[5+5]
6.	Write briefly about Congestion control in datagram subnets. OR	[10]
7.	Write an example, demonstrate how to make routing table using distance vec routing. And list down the limitation.	tor [10]
8.	How would you describe the operation of Address resolution protocol? OR	[10]
9.	Explain in detail about crash recovery.	[10]
10.	How would you summarize theconceptsofE-mail,itsarchite tur and services? [10] OR	
11.	Describe in detail about TCP segment header and connection Establishment.	[10]

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Q.P Code: CS3103PC Hall Ticket No.:

NARSIMHA REDDY ENGINEERING COLLEGE (UGC AUTONOMOUS)

MODEL QUESTION PAPER

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

COMPUTER NETWORKS

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). Answerall 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

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

Part-B(50 Marks) Answer any five questions

Q	.No	Question	M	CO	BL	PO				
UNIT-I										
2)	a.	Explain about different topologies.	5	CO1	L1	PO1				
	b	Explain the difference between TCP/IP and OSI Model.	5	CO1	L1	PO1				
	OR									
3)	a.	Explain about TCP/IP reference Model.	5	CO1	L1	PO2				
	b	Explain the hardware layers in OSI layers.	5	CO1	L1	PO1				
		UNIT-II								
4)	a.	Explain about Error detection and Error Correction	5	CO2	L1	PO1				
	b	Explain CSMA/CD and CSMA/CA in detail	5	CO2	L1	PO1				
		OR								
5)	a.	Briefly discuss about data link layer design issues	5	CO2	L3	PO1				
	b	Explain Go-Back-N with a neat sketch	5	CO2	L1	PO1				
		UNIT-III								
6)	a.	Explain design issues of Network Layer	5	CO3	L1	PO1				
	b ·	Explain distance vector routing in detail.	5	CO3	L1	PO1				
OR										
7)	a.	Explain store and forward packet switching.	5	CO3	L1	PO1				
	b	Difference between Broadcasting and Multi casting	5	CO3	L3	PO1				
UNIT-IV										
8)	a.	Explain the duties of transport layer.	5	CO4	L1	PO1				

	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 indetail	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**–