

2019/TDC/ODD/SEM/ BCACC-303T/150

TDC (CBCS) Odd Semester Exam., 2019

COMPUTER APPLICATION

(3rd Semester)

Course No.: BCACC-303T

(Computer Networks)

Full Marks: 50 Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

Water a secon TINUDE modern.

1. Answer any two of the following questions:

Write down the difference

Springliw 2×2=4

- (a) How can data flow be done in data communication?
- (b) Write down the difference between star and bus topology.
- (c) A noiseless channel with a bandwidth of 3000 Hz transmitting a signal with two signal levels. Find the maximum bitrate.

(Turn Over)



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2. Explain the difference between TCP/IP reference model and OSI reference model.

ON PUTER APPLICATION 3. (a) Draw the graph of the Manchester and differential Manchester scheme using the following data stream: 11/2+11/2=3

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(b) Explain analog to digital conversion techniques with diagram.

UNIT-II

4. Answer any two of the following questions:

 $2 \times 2 = 4$

- (a) Why is switching needed? Give example.
- (b) Draw a datagram network with four switches.
- (c) Write a short note on modem.
- 5. What hare circuit switching and packet switching? Write down the difference between these two. If also work 2+4=6

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- 6. (a) Define virtual circuit switching. How can addressing be made in virtual circuit network?
 - (b) What is digital subscriber line (DSL)? Briefly explain different types of DSL.

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(Continued)

mb Guelly explain TINUal addressing, Give

7. Answer any two of the following questions:

 $2 \times 2 = 4$

- (a) Define switches and router.
- (b) Find the Hamming distance:
 - .mdi(i) (00110011, 11000011) b mdg/3
 - (ii) (10101010, 01010011)
- (c) What is backbone network? Explain an with example, of all locus yes savenA &!
- 8. What is cyclic code? Explain CRC technique of error detection with example.

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What 9. Explain stop-and-wait 4+2=6 piggybacking?

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10. Answer any two of the following questions:

 $2 \times 2 = 4$

- (a) Define subnet and subnet mask.
- What are Net ID and Host ID?
- Identify the class after IP address 192.168.1.1. How many bytes are required to store the IP address?

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(Turn Over)



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11.	(a)	Briefly explain classful addressing.	Give	
_	(α)		are A was	3
	(b)	difference between IPv4		
357	(2)	_		3
		and IPv6.		
12.	Wha Exp	at is the objective of routing algori lain distance vector routing algoritl	LIIII.	
		en increase energial	2+4=	=6
	plain	What is backhouse ustworks in		
13.	Ans	wer any two of the following question	is:	
			2×2=	=4
7=8-	(a)	Mention two important objective transport layer.	s of	という
	(b)	Differentiate between IP addresses Port numbers.	and	
	(c)	Explain various parts http://www.aus.ac.in.	of	
14.	(a)	What is the difference between and UDP?	TCP	3
on C x	(b)	Explain HTTP protocol in detail.	AII.	3
		OR		
15.	Writ	te short notes on the following:	(5)	6
	(a)	Domain Name System (DNS)	3+3=	
	•	World Wide Web augusts		
	377 C 4	rate frame	(0)	
		5,39-4-5 11 44 * 11831 201		

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