CBCS SCHEME

USN								2-	, -		17CS:	-
-----	--	--	--	--	--	--	--	----	-----	--	-------	---

Fifth Semester B.E. Degree Examination, Jan./Feb. 2023 **Computer Networks**

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- With general format, explain the HTTP request and response messages. 1 (10 Marks)
 - With neat diagram, illustrate the basic operation of SMTP.

(10 Marks)

Explain recursive queries in DNS with neat diagram. 2

(10 Marks)

With neat diagram, explain DNS message format.

(10 Marks)

Module-2

- With general format, explain the various fields of UDP segment. Explain how checksum is 3 calculated. (10 Marks)
 - b. With neat diagram, explain the working of rdt 2.0.

(10 Marks)

OR

With general format, explain all the field in TCP segments.

- (10 Marks)
- Explain TCP connection management process with neat diagram.

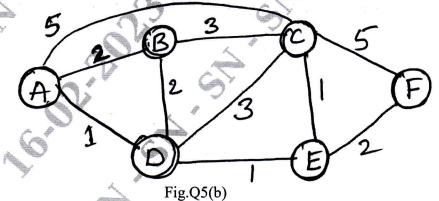
(10 Marks)

Module-3

With a neat diagram, explain the structure of a router. 5 a.

(10 Marks)

Write the link state algorithm and apply it to the following graph to compute shortest path from source node 'A' to all other nodes in the network. [Refer Fig.Q5(b)]



OR

- With general format, explain the various fields of IPV6.
 - Explain the intra-AS routing protocol in detail.

(10 Marks) (10 Marks)

(10 Marks)

Module-4

- Explain the 3G cellular network architecture with neat diagram. 7 (10 Marks) (10 Marks)
 - b. Explain the two types of routing approaches to mobile node.

8 a. Explain the three phases of mobile IP. (10 Marks) What is hand off? What are the steps involved in accomplishing handoff? (10 Marks) 9 a. Explain the three different types of Streaming's sorred video. Discuss the properties of audio and video. 10 a. Explain the working of CDN. What are the classifications in an authority of the control of the			17CS52
8 a. Explain the three phases of mobile IP. b. What is hand off? What are the steps involved in accomplishing handoff? 9 a. Explain the three different types of streaming stored video. b. Discuss the properties of audio and video. OR 10 a. Explain the working of CDN. b. What are the classifications in multimedia network applications? Explain. ****** (10 Marks) (10 Marks) (10 Marks) (10 Marks)			
b. What is hand off? What are the steps involved in accomplishing handoff? 9 a. Explain the three different types of streaming stored video. b. Discuss the properties of audio and video. OR 10 a. Explain the working of CDN. b. What are the classifications in multimedia network applications? Explain. ****** (10 Marks) (10 Marks) (10 Marks)			(10 Marks)
Module-5 b. Explain the three different types of streaming stored video. (10 Marks) b. Discuss the properties of audio and video OR (10 Marks) b. What are the classifications in multimedia network applications? Explain. (10 Marks) ******	8	b. What is hand off? What are the steps involved in accomplishing handoff?	
9 a. Explain the three different types of streaming stored video. Discuss the properties of audio and video OR (10 Marks)			
b. Discuss the properties of audio and video OR (10 Marks) b. What are the classifications in multimedia network applications? Explain. ******		Module-5	(10 Marks)
10 a. Explain the working of CDN. b. What are the classifications in multimedia network applications? Explain. ****** (10 Marks) *******	9	a. Explain the three different types of streaming stored video.	10.5
a. Explain the working of CDN. b. What are the classifications in multimedia network applications? Explain. ****** (10 Marks) ******		b. Discuss the properties of audio and video.	(20 1121111)
b. What are the classifications in multimedia network applications? Explain. (10 Marks)		OR	
b. What are the classifications in mathimedia network applications? Explain.	10	a. Explain the working of CDN.	
AND REAL STREET, STREE		b. What are the classifications in multimedia network applications? Explain.	(10 Marks)
SA S		****	
STATE OF STA			
2 of 2			
2 of 2			
2 of 2	la l		
2 of 2			*
2 of 2			
		2 of 2	
			1
R adding of			
	34	E , atth. F	