## 16/17MCA31

(08 Marks)

(08 Marks)

## Third Semester MCA Degree Examination, Dec.2018/Jan.2019 Computer Networks

Time: 3 hrs. Max. Marks: 80

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

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		Module-1	
1	a.	Define Computer Networks. Explain the uses of computer networks in business	s applications
		and home applications.	(08 Marks)
	b.	Explain Local Area Network in detail.	(08 Marks)
		OR	
2		OR	(0035
2	a. b.	Describe the architecture of internet with diagram.  Explain OSI reference model with diagram.	(08 Marks)
	υ.	Explain OSI reference model with diagram.	(08 Marks)
		Module-2	
3	a.	What is framing? Explain the four framing methods.	(08 Marks)
	b.	Explain four different error-correcting codes.	(08 Marks)
		OB	
4	a.	Explain the following:	
-	u.	i) Simplex stop and wait protocol for error free channel	
		ii) Simplex stop and wait protocol for noisy channel.	(08 Marks)
	b.	Explain the Go-back-N sliding window protocol.	(08 Marks)
		Module-3	
5	a.	How connection oriented service is implemented in network layer?	(08 Marks)
	b.	Discuss about distance vector routing algorithm with suitable network.	(08 Marks)
			()
		OR	
6	a.	What is congestion control? Discuss the approaches to congestion control.	(08 Marks)
	b.	Discuss about Broadcast routing in network layer.	(08 Marks)
		Module-4	
7	a.	Explain the following:	
,	и.	i) Nesting of segments, packets and frames	
	du.	ii) Socket primitives in TCP	(08 Marks)
	b.	Write socket programming with respect to internet file server.	(08 Marks)
		OD	
8		Write short notes on: i) TCP ii) UDP.	(00 M - J)
O	a. b.	Write short notes on: i) TCP ii) UDP. Discuss about the elements of transport protocols.	(08 Marks) (08 Marks)
	υ.	Discuss about the elements of transport protocols.	(00 Marks)
		Module-5	
9	a.	Explain the following: i) Domain Name System ii) Electronic Mail.	(08 Marks)
	b.	Explain the DNS resource record types.	(08 Marks)
		OR	

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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Discuss about static and dynamic web pages.

Explain in detail about server farm and web proxies.