## MASTER OF COMPUTER APPLICATIONS (CBCS – 2022 COURSE) M.C.A. Sem – I : WINTER- 2022 **SUBJECT: COMPUTER NETWORKS**

Day: Thursday

Time: 02:00 PM-05:00 PM

Date: 1/

/12/2022		W-25933-2022		Time: 02:00 PM-05:00 PM Max. Marks: 100	
N. B.	: 1) 2) 3)	Attempt <b>ANY FIVE</b> questions from Section – I. Each question carries <b>12</b> M Attempt <b>ANY TWO</b> questions from Section – II. Each question carries <b>20</b> I Figures to the right indicate <b>FULL</b> marks.			 Aarks. Marks.
			SECTION - I		· · · · · · · · · · · · · · · · · · ·
Q. 1		Define network topologies. Explain different types of network topologies in detail.		(12)	
Q. 2		Wha	at are wireless sensor networks? Explain its app	olications.	(12)
Q. 3		What is the functionality of application layer? Explain at least two protocols used in application layer.		(12)	
Q. 4		What is switching? Explain message switching and packet switching.		(12)	
Q. 5		What is synchronous and asynchronous transmission? Differentiate between synchronous and asynchronous transmission.		(12)	
Q. 6	a)	Write short notes on <b>ANY TWO</b> of the following:  WWW			(12)
	b) c)	Multiplexing IPV6			
			SECTION - II		
Q. 7			d the class of each IP address given below; giv your answer:	e the suitable explanation	(20)
		i)	227.12. 14. 87		
		ii)	193. 14. 56. 22		
		iii)	14. 23. 720. 8		
		iv)	252. 5. 15. 111		
		v)	134. 11. 78. 56		
		vi)	224. 220. 24. 6		
Q. 8		What is MANET? What are the applications of MANETs? Explain destination sequenced distance vector protocol for MANET.		(20)	
Q. 9		Des coll	sign network layout for your college. Suggest di- lege network with their advantages and disadva	fferent topologies for your ntages.	(20)