Reg. No. :										
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# **Question Paper Code: 54204**

### B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

### Fourth Semester

## Computer Science and Engineering

#### 15UCS404- COMPUTER COMMUNICATION AND NETWORKS

(Regulation 2015)

Duration: 1.15 hrs Maximum: 30 Marks

PART A -  $(6 \times 1 = 6 \text{ Marks})$ 

	(2	Answer any six of the	following questions)				
1.	For real time multimedia, file transfer, DNS and email, the transport layer protocols used are respectively						
	(a) TCP, UDP, TCP and UDP		(b) UDP, UDP, TCP and	ТСР			
	(c) UDP, TCP, UDP and TCP		(d) TCP, TCP, UDP and U	JDP			
2.	Which one of the follo	by data link layer?	CO1- F				
	(a) Framing	b) Error control	c) Flow control (d	d) Channel coding			
\3.	3. Ethernet = 10Mbps, Jamming signal = 48bit, Round trip propagation delay = 46.4µs, minimum frame size =?						
	(a) 512	(b) 440	(c) 100	(d) 1024			
4.	Cyclic codes are fast	when these are impler	nented in	CO2- F			
	(a) Software	(b) Hardware	(c) Local Area Network	(d) Both a and b			
5.	In an IP datagram on because	e of the header fields	is time to live (TTL) field	CO3-U			
	(a) It can be used to prevent packet looping						
	(b) It can be used to optimize throughput						
	<ul><li>(c) It can be used to reduce delays</li><li>(d) It can be used to prioritize packets</li></ul>						

	bits of the packets arriv	ve?					
	(a) Circuit switching		b) Message switching				
	c) Store and forward switching		d) Packet switching				
7.		The network layer concerns with			CO4-R		
	(a) Bits	(b) Frames	(c) Packets	(d) Datagr	rams		
8.	is a packet ro to every neighbor exce	-	nethod in which incoming packet is sent CC re it came from.				
	(a) Flooding	(b) Routing	(c) Forwarding	(d) Switch	ing		
9.	For the application la (PDU) is	yer in the Interne	t stack, the protocol data unit	• •	CO5-R		
	(a) Datagram	(b) Message	(c) Frame	(d) Segme	nt		
10.	User datagram protoco	ol is called connect	ionless because		CO5- R		
	(a) All UDP packets ar	e treated independ	ently by transport layer				
	(b) It sends data as a st	ream of related pa	ckets				
	(c) It is received in the	e same order as ser	nt order				
			lently by application layer				
		PART – I	3 (3 x 8= 24 Marks)				
	(	Answer any three	e of the following questions)				
11.	List the layers of OSI I layer	model and elaborat	te the functionalities of each	CO1-R	(8)		
12.	What is the need for error detection with type		Explain the methods used for	CO2-U	(8)		
13.	Explain any four connecting devices in detail.				(8)		
14.	Explain in detail (i) ICMP (ii) IGMP			CO4-U	(8)		
15.	` '		detail about the congestion	CO5-U	(8)		