Total No. of Questions :	8]

SEAT No.:	
[Total	No. of Pages : 2

P9143

[6179]-270

S.E. Artificial Intelligence & Machine Learning **COMPUTER NETWORKS**

(2019 Pattern) (Semester-III) (218543)	
¹ / ₂ Hours] [Max. Mar	rks : 70
ions to the candidates:	
Answer question 1 or 2, 3 or 4, 5 or 6 and 7 or 8.	
Neat diagrams must be drawn wherever necessary.	
·	
Assume suitable data, if necessary.	
Explain the working mechanism of.	[9]
i) Stop and Wait ARQ.	
ii) Selective Repeat ARQ.	
What is CRC? Generate the CRC code of message 1101011101. generator Polynomial $g(x) = x^3 + x^2 + 1$.	Given [9]
OR	
Discuss CSMA/CA random access technique. How collision avoi is achieved in the same?	idance [9]
What is hamming code? Also find Hamming Code word for folloata word 1001011 using even parity.	owing [9]
Discuss EIGRP protocol in detail.	[9]
Explain Subnetting and Subnetting with example.	[8]
OR	
Explain classful and classless addressing with suitable example.	[9]
Discuss in detail fragmentation in terms of IPv4.	[8]
i	Answer question 1 or 2, 3 or 4, 5 or 6 and 7 or 8. Neat diagrams must be drawn wherever necessary. Figures to the right indicate full marks. Assume suitable data, if necessary. Explain the working mechanism of. i) Stop and Wait ARQ. ii) Selective Repeat ARQ. What is CRC? Generate the CRC code of message 1101011101. generator Polynomial g(x) = x³ + x² + 1. OR Discuss CSMA/CA random access technique. How collision avoi is achieved in the same? What is hamming code? Also find Hamming Code word for foll Data word 1001011 using even parity. Discuss EIGRP protocol in detail. Explain Subnetting and Subnetting with example. OR Explain classful and classless addressing with suitable example.

Q5)	a)	Discuss TCP services and TCP timers in detail.	
	b)	Explain implementation of Leaky bucket in detail with diagram.	[9]
		OR	
Q6)	a)	Describe the process of connection establishment in TCP.	[9]
	b)	Explain the mechanism of congestion control in detail.	[9]
Q 7)	a)	What is DNS server? Explain lookup methods used by the DN resolve the remote names.	S to [9]
	b)	What is MIME? Explain the MIME header with suitable example.	[8]
		OR	
Q8)	a)	Explain SMTP protocol and SNMP protocol.	[9]
	b)	Explain FTP with suitable diagram. Which port does it use and for very purpose?	what [8]

