

K19P 0919

Reg. No. :

11. Which protocol supports email and give details about t

II Semester M.C.A. Degree (Reg./Suppl./Imp.) Examination, July 2019 (2014 Admission Onwards) **MCA2C10 : COMPUTER NETWORKS**

Time : 3 Hours

Max. Marks: 80

SECTION - A

Answer any ten questions. Each question carries three marks. (10×3=30)

- 1. Explain message switching with an example.
- 2. List and explain the four fundamental characteristics of effective data communication system.
- 3. Write a short note on ARPANET.
- 4. Write a note on Single Bit Error and Burst Error.
- 5. Write a note on Password Authentication Protocol (PAP).
- 6. Explain transition phases of PPP.
- 7. Write a short note on exponential back of algorithm.
- 8. What advantages does TDMA has over FDMA in a circuit-switched network ?
- 9. Compare and contrast between distance vector routing and link state routing.
- 10. Define subnet. How do the subnet mask and supernet mask?

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- 11. Which protocol supports email and give details about that protocol.
- 12. Give the description of flags in the control field of TCP header.

SECTION - B

Answer all questions. Each question carries ten marks. (5×10=			50)
13.	a)	Discuss OSI reference model as network architecture.	10
		OR	
	b)	With neat diagram explain the structure of Co-axial cable. Also explain coaxial cable connectors.	10
14.	a)	Explain the Link Control Protocol in detail.	10
		OR OR States of the states of	
	b)	Explain the Selective Repeat ARQ in detail.	10
15.	a)	Describe the 802.11 protocol stack for wireless LAN.	10
		ORO	
	b)	What is collision ? How does CSMA/CD detect and handle collisions ?	10
16.	a)	What is an IP address ? Explain the different classifications of IP address.	10
	b)	Discuss any four methods of congestion control in datagram subnets.	8 10
17.	a)	Describe how TCP uses congestion control to avoid congestion in the network.	10
		Define subnet. How do the subnet mask and su RO at mask 2	
	b)	Explain leaky bucket technique for traffic shaping in networks.	10
	28		