SARDAR PATEL UNIVERSITY

Master of Computer Applications (M.C.A.) III - Semester Examination PS03CMCA25 Computer Networks - II

Time	e: 2:00 p	om to 5:00 pm 16 th April, 2019 Thesday Max. Marks: 70)
1.		Select most appropriate option for each of the following questions:	[8]
	(i)	How many keys are used in symmetric key cryptography?	
	(ii)	(A) One (B) Two (C) Three (D) Four Which of the following is not a routing algorithm? (A) Shortest Path (B) Hierarchical (C) Distance Vector (D) RSA	
	(iii)	What is the data transmission speed supported by 100Base-TX? (A) 10 Mbps (B) 100 Mbps (C) 1 Gbps (D) None of these.	·
	(iv)	In 1000BaseFX, F stands for (A) Frequency (B) Fiber Optics (C) Frame (D) Fragmentation	
	(v)	The layer is responsible to decide the route of packet. (A) Physical (B) Datalink (C) Network (D) Transport	
	(vi)	Iridium project is an example of satellites. (A) LEO (B) MEO (C) GEO (D) None of these.	
	(vii)	Frequency is measured in (A) Hertz (B) volts (C) degrees (D) None of these	
	(viii)	Full form of VPN is (A) Virtual Public Network (B) Vertical Private Network (C) Virtual Private Network (D) Vertical Public Network	
2.	(i) (ii) (iii) (iv) (v) (vi) (vii) (viii)	Do as directed (Any Seven): Explain the meaning of congestion. Write any two advantages of using satellite communication over fiber optic communication. List names of various guided media. Define: Footprint, Transponder. Differentiate: adaptive and non-adaptive routing algorithms. Write the full forms of GPRS and SMS. Why fragmentation is required? Define: Base station and Mobile station.	[14]
3.	(ix)	What do you mean by a substitution cipher? Explain the Fast Ethernet cabling schemes.	[6]
J.	[A] [B]	Write a short note on satellite communication.	[6]
		OR	

Explain Local loop and modem in detail.

[B]

[6]

4.	[A]	Differentiate: virtual circuit subnets and datagram subnets.	[6]
	[B]	Discuss the distance vector routing algorithm with an example.	[6]
		OR	
	[B]	What is flooding? List various applications of flooding.	[6]
5.	(A)	Explain the transposition cipher with an example.	[6]
	[A]	•	[6]
	[B]	Explain the transparent fragmentation technique in detail.	
		OR	
	[B]	Write a short note on Firewalls.	[6]
6.	[A]	Explain: wireless transmission.	[6]
		•	[6]
	[B]	Write a short note on SMS.	
		OR	
	[B]	Short note on mobile telephone system.	[6]
