

[51/A-59]

SEAT No. \_\_\_\_\_

No. of printed pages: 02

# SARDAR PATEL UNIVERSITY

Master of Computer Applications (M.C.A.) IV – Semester Examination

PS04CMCA03 Computer Networks – II

Wednesday, 10<sup>th</sup> April, 2019

Time: 2:00 pm to 5:00 pm

Max. Marks: 70

**Q.1 Give answers of following multiple choice questions: [8]**

1. \_\_\_\_\_ protocol is used for trustworthy and secure websites.  
a. HTTP                      b. HTTPS                      c. TCP                      d. UDP
2. The full form of MTU is \_\_\_\_\_.  
a. Message Transmission Unit                      b. Message Transport Unit  
c. Maximum Transmission Unit                      d. Maximum Transport Unit
3. \_\_\_\_\_ is Ethernet standard.  
a. 802.11                      b. 802.3                      c. 802.16                      d. 802.15
4. Which type of cable is used in 10BaseT?  
a. Thin Co-axial                      b. Thick Co-axial  
c. Twisted Pair                      d. Fiber Optics
5. MF band is used by \_\_\_\_\_.  
a. radio wave                      b. microwave                      c. Gamma rays                      d. X-rays
6. \_\_\_\_\_ satellites are used for GPS system.  
a. LEO                      b. MEO                      c. GEO                      d. KEO
7. A process of converting plain text to cipher text is known as \_\_\_\_\_.  
a. Encryption                      b. Decryption                      c. Encoding                      d. Decoding
8. Full form of WLL is \_\_\_\_\_.  
a. Wireless Logical Loops                      b. Wireless Local Loops  
c. Wired Logical Loops                      d. Wired Local Loops

**Q.2 Do as directed (Any Seven): [14]**

- (i) Define: Base station & Mobile station.
- (ii) What is scatternet and piconet?
- (iii) Write the difference between twisted pair and fiber optics cable.
- (iv) List applications of satellite communications.
- (v) What is P-box and S-box?
- (vi) Write the full form of CDMA and GSM.
- (vii) What do you mean by MTU?
- (viii) What do you mean by flow control and error control?
- (ix) Convert the plain text "sun" into cipher text with caesar cipher technique with key = 3.

(1)

(P.T.O)

- Q.3 [A] Discuss in detail how networks differ from each other on various parameters. [6]  
[B] Explain Fast Ethernet in detail. [6]
- OR
- [B] Explain Gigabit Ethernet in detail. [6]
- Q.4 [A] List Routing algorithms. Explain any one in detail. [6]  
[B] Define: congestion. Explain congestion prevention policies. [6]
- OR
- [B] Write a short note on VPN. [6]
- Q.5 [A] Write a short note on firewall. [6]  
[B] Write a short note on fragmentation. [6]
- OR
- [B] List symmetric key algorithms. Explain anyone with an example. [6]
- Q.6 [A] Short note on mobile telephone system. [6]  
[B] Write a short note on Wireless transmission. [6]
- OR
- [B] Explain Cellular topology. [6]

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(2)