

18CS702

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IV/IV B.Tech (Regular) DEGREE EXAMINATION

December, 2021

Seventh Semester

Time: Three Hours

Computer Science &amp; Engineering

Wireless Networks

Maximum: 50 Marks

Answer Question No.1 compulsorily.

(10X1 = 10 Marks)

Answer ONE question from each unit.

(4X10=40 Marks)

1. a) Write the frame structure of UMTS.
- b) List the services of MAC management in IEEE802.11.
- c) Define multiplexing.
- d) List the services provided by GSM.
- e) List the services of WTLS.
- f) Define amplitude shift keying.
- g) Mention the different entities in a mobile IP.
- h) Define spread spectrum.
- i) How congestion is controlled by classical TCP.
- j) What is WAP?

CO2  
CO3  
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CO3

## Unit -I

2. What is the main physical reason for the failure of many MAC schemes known from wired networks? What is done in wireless networks to avoid this effect? CO1 10M

(OR)

3. Explain about reservation scheme for medium access control. CO1 10M

## Unit -II

4. Explain about radio interface of GSM network with neat diagrams. CO2 10M

(OR)

5. a) What are the different types of burst in frame structure of GSM. CO2 5M
- b) Write about TETRA. CO2 5M

## Unit -III

6. Explain about DFWMAC using back-off algorithm with an example and neat diagram. CO3 10M

(OR)

7. a) Explain power management in infrastructure network. CO3 5M
- b) Write about IP-in-IP encapsulation method. CO3 5M

## Unit -IV

8. Explain the architecture of WAP. CO4 10M

(OR)

9. Write about the services of wireless session layer with neat diagrams. CO4 10M