

5C7153	Roll No. _____	Total No of Pages: 2
 5C7153 M.C.A. V - Sem. (Main / Back) Exam., Feb.-March - 2021 MCA-503A Wireless Technologies 		

Time: 2 Hours

[To be converted as per scheme]

Max. Marks: 60

Min. Marks: 24

Instructions to Candidates:

Question no. one is compulsory. Attempt any two question out remaining question number 2 to question no.5.

*Use of following supporting material is permitted during examination.
(Mentioned in form No. 205)*

1. NIL

2. NIL

Q.1 Answer the following in one line -

[20]

- (a) What is wireless transmission?
- (b) What is Multiplexing?
- (c) What is digital video broadcasting?
- (d) What is Satellite System?
- (e) Define tunneling and encapsulation.
- (f) Define Adhoc Network.
- (g) Define Transfer Control Protocol.
- (h) Define Datagram Protocol.
- (i) What is WML Script?
- (j) What is radio transmission?

[20]

Q.2 Answer following in 100 words approximately -

- (a) What do you understand by CSMA? How does CSMA minimize fading?
- (b) Is a directional antenna useful for mobile phones? Why, explain with example.
- (c) Explain cellular system.
- (d) What are the benefits of location information for routing in adhoc networks?
- (e) Explain Bluetooth Network. How does Bluetooth device discover a Bluetooth Network?

Q.3 Answer following in 150 words approximately -

[20]

- (a) Compare SDMA, FDMA and TDMA.
- (b) Explain following with respect to Bluetooth : Services offered, Bluetooth packet format, Link management.
- (c) Explain the concept behind the TCP. What are the improvements that are made into the classical TCP?

Q.4 Explain the following in detail-

[20]

- (a) Discuss the services provided by IEEE 802.11 with its system architecture.
- (b) Explain WAP architecture. What are the functions supported by WML?

Q.5 Attempt any one question –

[20]

Explain in detail-

- (a) What is multiplexing? Explain the different types of multiplexing techniques and state their merits and demerits.

OR

(b) Write short note on -

- (i) Cellular Systems
- (ii) Digital Audio and Video Broadcasting
- (iii) Tunneling and encapsulation
