

M.C.A.(Sem-V)

April-2023

Time: 3 Hours

Total Marks: 80

N.B.

- 1) Question Number Q.1 is compulsory.
2) Attempt any three questions between Q.2 to Q.6.

- Q.1** A Attempt Any four (5 marks each) **20 M**
 1 Define multiplexing , with their types
 2 Define & explain Fading.
 3 Write a short note on Ad-hoc network.
 4 Explain the terms Access Points, Distribution System
 5 What is the history behind the name 'Bluetooth'?
- Q.2**
 A What are the important characteristic, features of Bluetooth technology? **10 M**
 B What geometric shape is used in cellular system design? Explain the frequency reuse in the context of a cellular network **10 M**
- Q.3**
 A Write short note on i) Frequency Division Multiple Access (FDMA)? **10 M**
 and ii) Time Division Multiple Access (TDMA).
 B What are the key differences between first- and second-generation cellular systems? **10 M**
- Q.4**
 A What are the limitation of I-TCP? Discuss on Wireless TCP Mechanisms. **10 M**
 B What is Mobile IP? Explain working of Mobile IP. **10 M**
- Q.5**
 A What does fast recovery do? Discuss on Fast Retransmit and Fast Recovery? **10 M**
 B What is Transmission Control Protocol (TCP)? Explain its importance. **10 M**
- Q.6** A What are the different types of WML Script Operators being available? **10 M**
 B What is WAP? Explain its significance and architecture with neat diagram **10 M**