

(3 Hours)

[Total Marks: 80]

- N.B. :**
- 1) Question No.1 is **compulsory**.
 - 2) Attempt any **three** from the remaining **five** questions.
 - 3) Figures to the right indicate full marks

1. (a) How is Spread spectrum useful in Wireless Communication? Explain (10)
FHSS and DSSS.
- (b) Discuss the different transmission impairments in wireless (10)
communications.
2. (a) What is an antenna? Elaborate different kinds of antenna. (10)
- (b) Explain the standard of Bluetooth? Draw the state diagram and (10)
elucidate the various states of bluetooth.
3. (a) Discuss the system architecture of IEEE 802.11 with diagram. Write (10)
a note on its services.
- (b) Explain GSM system architecture in detail with a diagram. State the (10)
difference between GSM and GPRS .
4. (a) Explain Indirect TCP and Snooping TCP with its advantages and (10)
disadvantages.
- (b) What are MANETs? Analyze the routing algorithms in MANETs. (10)
5. (a) Write a note on : i) iMode ii) SyncML iii) WML and WML Script. (10)
- (b) Explain the concept of Dynamic Source Routing (DSR). How is it (10)
different from Destination Sequence Distance Vector (DSDV)?
6. (a) What are the problems of WLAN? What are the weakness of WEP? (10)
What changes are to be made in WPA and WPA2 to overcome the
weakness.
- (b) Describe WAP Programming Model. Explain the role of WAP (10)
gateway and WAP user agent profile.