

Duration: 3hrs

[Max Marks:80]

- N.B. : (1) Question No 1 is Compulsory.
 (2) Attempt any three questions out of the remaining five.
 (3) All questions carry equal marks.
 (4) Assume suitable data, if required and state it clearly.

- 1 Attempt any **FOUR** **[20]**
 - a Explain different types of Antenna used in mobile communication. **5**
 - b What is co-channel interference? **5**
 - c What is reverse tunneling? **5**
 - d Describe use of Cellular IP. **5**
 - e Compare various Telecommunication Generations **5**
- 2 a Explain protocol architecture of WLAN and its different types. **[10]**
 - b What is the use of different interfaces used in the global system for mobile communication (GSM) with appropriate diagram? **[10]**
- 3 a What are different security algorithms used in GSM? **[10]**
 - b How is packet delivery achieved to and from mobile nodes? **[10]**
- 4 a Explain Wireless LAN threats. **[10]**
 - b What is the responsibility of MAC management in IEEE 802.11? **[10]**
- 5 a Explain selective retransmission process at TCP. **[10]**
 - b Explain self-organizing networks (SON) for heterogeneous Networks. **[10]**
- 6 a Explain agent registration process in mobile communication. **[10]**
 - b What is micro mobility and its approaches? **[10]**
