

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]
