

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.

Q1. Attempt any FOUR Questions

20

- a) Explain the concept of frequency reuse with clustering.
- b) Compare LTE and LTE advanced.
- c) What is Hidden and Exposed station problem?
- d) What are the roles of EIR and HLR entities in a GSM network?
- e) Discuss about the mobile services and data services in GSM.

Q2 a) What do you mean by Self Organizing Networks. Explain the architecture of SON.

10

Q2 b) What is a need of Micro Mobility? Explain Cellular IP in detail.

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Q3 a) What are the different Handover mechanism in GSM? Explain each handover mechanism in brief.

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Q3 b) Explain the protocol architecture of IEEE 802.11 with diagram.

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Q4 a) Explain the GPRS architecture, explain each block in detail.

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Q4 b) Explain snooping TCP and mobile TCP with their merits and demerits.

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Q5 a) What is spread spectrum? Why is it used? Explain any one of the spread spectrum techniques.

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Q5 b) Explain Mobile Terminated Call and Mobile Originated Call.

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Q6 a) Explain the mechanism for IP packet delivery using mobile IP.

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Q6 b) Discuss in detail about Wi-Fi security protocol.

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