Time: 3 Hours Marks: 80 Note:- Q 1 is compulsory Solve any three from remaining Each question carries 20 marks Q1] Solve any four A] Explain different application of mobile computing. B] Explain concept of frequency reuse with clustering. C] Explain IP mobility. D] Explain characteristics of GSM standards. E] Explain in short voice over LTE. Q 2] a] Explain in detail GSM architecture. B] Explain in short different algorithm used for authentication and privacy in GSM. Q3] a] Explain hidden station and exposed station problem with solution in WLAN. B] How is packet delivery achieved to and from mobile node? Q 4] a] Explain DSDV routing protocol used in ad-hoc network. B] Explain protocol architecture of IEEE 802.11.

Q 5] a] Explain Bluetooth protocol stack in detail.

B] Explain different security threats in WLAN and discuss the available solutions.

Q 6] A] Explain different components used in LTE architecture with diagram.

B] Explain various nodes present in E-UTRAN architecture.

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