Total No. of Questions : 8]

SEAT No. :

P4771

[Total No. of Pages : 2

[5561]-269
B.E. (E & TC)
WIRELESS NETWORKS (Theory)
(2012 Pattern) (Elective - IV) (Semester - II)

Time : 2½ Hours] *[Max. Marks : 70*

Instructions to the candidates :

1) ***Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q. 6, Q. 7 or Q.8.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicates full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) With neat diagram explain the 4G wireless access technology paths. **[7]**

b) Explain in detail different protocols for WiFi. **[7]**

c) Explain architecture of 3GPP release 4 - network. **[6]**

OR

Q2) a) What is wireless migration? Explain in brief. **[7]**

b) What is VPN? Describe various types of mobile VPNs. **[7]**

c) Explain speech & data services supported by UMTS. **[6]**

Q3) a) What are important features of LTE systems? Explain LTE Architecture in detail with diagram. **[9]**

b) What is VOLTE & LTE Advanced? Explain in details. **[9]**

OR

Q4) a) What is carrier aggregation in LTE? Discuss in brief. **[9]**

b) What is Handover? With suitable diagram explain X2 handover mechanisum. **[9]**

P.T.O.

Q5) a) Explain the generic architecture of WiMAX Technology with suitable schematic. **[8]**

b) Explain the modulation techniques used in WiMAX. Describe 802.16e frame layout. **[8]**

OR

Q6) a) What is meant by interface mitigation? With suitable diagram explain frequency planning with Fractional Frequency Rease (FFR). **[8]**

b) Explain Hand over process in WiMAX. **[8]**

Q7) a) With suitable diagram explain the functions of each layer in VoIP protocol. **[8]**

b) What are advantages of using SIP in VoIP? Explain the complete functionalities of SIP for VOIP calls. **[8]**

OR

Q8) a) Explain in detail H.323 network architecture. **[8]**

b) Write note on VoIP - Quality of Service (QoS) **[8]**

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