

Roll No.

Total No. of Pages : 01

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M.Tech.(CSE Engg.)E-II (2018 Batch) (Sem.–1)  
**ADVANCED WIRELESS AND MOBILE NETWORKS**

Subject Code : MTCS-110-18

M.Code : 75160

Time : 3 Hrs.

Max. Marks : 60

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWELVE marks.

1. What is 4G? What are the technologies behind 4G? How fast is 4G compared to 3G?
2. Discuss in detail the difference between IPv4 and IPv6. Why do we need to shift to IPv6?
3. Explain the architecture of Bluetooth and Zigbee wireless personal area networks.
4. Name the 3G radio access schemes identified to support different spectrum scenario.
5. Compare infrared vs. radio transmission techniques.
6. Imagine the following scenario :  
  
A Japanese and a German meet at a conference in Hawaii. Both want to use their laptops for exchanging data, both run mobile IP for mobility support. Explain the optimizations used in this mobile IP network.
7. Explain and compare medium access mechanism of DCF methods adopted in IEEE 802.11 WLAN.
8. Write your understanding on behaviour of smart antenna techniques.