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Roll No .....

**EC-8011 (GS)****B.E. VIII Semester**

Examination, May 2018

**Grading System (GS)****Advanced Data Networks**

(Elective-II)

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt any five questions. Each question carries equal marks.

ii) Assume suitable data if missing.

1. a) How is handoff in cellular mobile communication affected by handoff threshold and minimum acceptable signal level? Illustrate Hard Handoff and Soft Handoff in cellular mobile communication systems. 7
- b) Explain in detail the wireless system security and privacy? 7
2. a) What are the methods for power management in Cellular networks? Explain any one of them. 7
- b) Explain briefly about wireless network topology? 7
3. a) Name and explain the five major challenges for implementing WLANs that exist in industry. 7
- b) Discuss Adhoc network with their merits and demerits? 7

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4. a) Explain the route optimization techniques in mobile network layer. 7
- b) Write a short note on GPRS? 7
5. a) Explain prevention of interference of Bluetooth and 802.11? rgpvonline.com 7
- b) Explain the process of satellite navigation in detail? 7
6. a) Describe Bluetooth architecture and protocol. Also discuss its limitations. 7
- b) Explain the architecture and services of IEEE 802.11. 7
7. a) What is GPS system? Write and explain the principles of GPS. 7
- b) Compare the performance of bus architecture and ring architecture. 7
8. Write a short note the following: 14
- i) OADM
- ii) SONET/SDH
- iii) Wavelength conversion

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