

COURSE CODE: DCAP607
COURSE TITLE: Wireless Networks

Date of Exam:- 14 Oct
Time Allowed : 3 hours

Session:- 1:30-4:30
Max. Marks: 80

- 1. This paper contains 10 questions divided in two parts on 2 pages.*
- 2. Part A is compulsory.**
- 3. In Part B (Questions 2 to 10), attempt any 6 questions out of 9. Attempt all parts of the questions chosen.**
- 4. The marks assigned to each question are shown at the end of each question in square brackets.*
- 5. Answer all questions in serial order.*

PART A

Q1:

- a) List down the different types of wireless networks?
- b) What are MAC filters?
- c) Bridges Vs. Access Points?
- d) What are Ad Hoc Wireless LAN's?
- e) Define Wireless Routers?
- f) What do you mean by DoS Attack (Denial of Service)?
- g) Define Point to Point and Point to Multi Point Systems?
- h) What do you mean by a Wireless Transceiver?
- i) List out the four layer involved in SMS
- j) Name the five major challenges for implementation of wireless LANs that existed from the beginning of this industry. [10*2=20]

PART B

- Q2. What is a wireless network and discuss its various benefits over wired network? [10]
- Q3. Discuss the different generations in cellular networks? [10]
- Q4. "There are various security threats to wireless networks "Discuss? [10]
- Q5. What is WEP and what are the various WEP issues concerning wireless security? [10]
- Q6. What is the purpose and role of IEEE 802.16 Standard? [10]

Q7. How are public key and secret key algorithms different? [10]

Q8. (i) Explain the frame format in Bluetooth technology. [5]

(ii). Discuss the connection management followed in Bluetooth technology [5]

Q9. Describe in detail about Space-Based Wireless WANs [10]

Q10. Write note on

a) USB adapter

b) NIC

c) pros and cons of wireless router

[10]