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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING**

**TEST - 1**

**Even Semester:** 2018-19

**Course Code:** CSE 304

**Course Name:** Mobile Communication

**Programme & Sem:** B.Tech (DE) & VI Sem

**Date:** 06 March 2019

**Time:** 1 Hour

**Max Marks:** 40

**Weightage:** 20%

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**Part A**

Answer **all** the Questions. **Each** question carries **three** marks.

(4Qx3M=12)

1. Describe the three characteristics of a signal.
2. Identify the primary need of wireless communication.
3. List out the major components of wireless communication system.
4. Mobile phones follow which type of communication, and justify your answer

**Part B**

Answer **all** the Questions. **Each** question carries **six** marks.

(3Qx6M=18)

5. Compare analog and digital signal.
6. Describe three modulation techniques with a neat diagram
7. Write a note on cellular handover

**Part C**

Answer the Question. Question carries **ten** marks.

(1Qx10M=10)

8. Depict the complete GSM architecture and describe Network switching sub system



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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING**

**TEST - 2**

**Even Semester:** 2018-19

**Course Code:** CSE 304

**Course Name:** Mobile Communication

**Program & Sem:** B.Tech & VI Sem (DE)

**Date:** 16 April 2019

**Time:** 1 Hour

**Max Marks:** 40

**Weightage:** 20%

**Part A**

Answer **all** the Questions. **Each** question carries **three** marks. (4Qx3M=12)

1. Differentiate ad-hoc and infrastructure based network
2. Identify the two major improvisations required to implement GPRS in GSM network
3. List out the different Bluetooth profiles and describe them briefly
4. Discuss the role of SMSC

**Part B**

Answer **all** the Questions. **Each** question carries **six** marks. (3Qx6M=18)

5. Discuss a system which uses RFID tag to open gate automatically for vehicles
6. Compare and contrast infra-red and radio communications
7. Write a note about satellite communication system

**Part C**

Answer the Question. The Question carries **ten** marks. (1Qx10M=10)

8. Explain the necessity of Mobile IP along with its implementation details



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**PRESIDENCY UNIVERSITY  
BENGALURU**

**SCHOOL OF ENGINEERING**

**SUMMER TERM / MAKE UP END TERM EXAMINATION**

**Semester:** Summer Term 2019

**Date:** 24 July 2019

**Course Code:** CSE 304

**Time:** 2 Hours

**Course Name:** Mobile Communication

**Max Marks:** 80

**Program & Sem:** B.Tech (CSE) & VI Sem (2015 Batch)

**Weightage:** 40%

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**Instructions:**

- (i) *Read the questions properly and answer accordingly.*
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**Part A**

Answer **all** the Questions. **Each** question carries **five** marks. (4Qx5M=20M)

1. Define the path loss of radio signals?
2. What do you mean by Medium Earth Orbit (MEO)?
3. What are the different layers of WAP architecture?
4. What is the difference between Active and Passive attack?

**Part B**

Answer **all** the Questions. **Each** question carries **ten** marks. (3Qx10M=30M)

5. Explain GPRS architecture in detail. Compare it with GSM architecture.
6. (a) Describe the wireless communication systems.  
(b) With a neat diagram, explain the Bluetooth piconet architecture.
7. Describe the advantages and disadvantages of WLANs?

**Part C**

Answer **both** the Questions. **Each** question carries **fifteen** marks. (2Qx15M=30M)

8. Discuss the concept and architecture of mobile IP. Describe the following steps in mobile IP.
  - (a) Agent Discovery
  - (b) Registration
  - (c) Tunneling
9. Explain mobile ad-hoc networks? Differentiate between mobile ad-hoc networks and cellular networks? Describe DSDV and DSR protocols.

