

**SV-466**

Total No. of Pages : 2

Seat No.	
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**B.E. (Electronics and Telecommunication) (Part - IV)**  
**(Semester - VIII) Examination, May - 2019**  
**WIRELESS MOBILE COMMUNICATION (Revised)**  
**Sub. Code: 67817**

Day and Date : Thursday, 16-05-2019

Total Marks : 100

Time : 10.00 a.m. to 1.00 p.m.

- Instructions :
- 1) All questions are compulsory.
  - 2) Figures to the right indicate full marks.
  - 3) Assume suitable data if necessary.

**Q1) Attempt any TWO :**

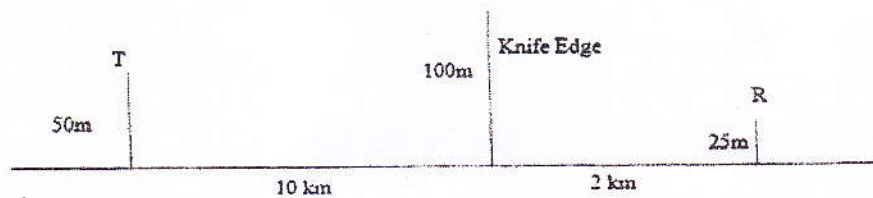
**[16]**

- a) Explain Basic Propagation Mechanisms in Mobile Radio Propagation.
- b) Explain in detail parameters of mobile multipath channels.
- c) Explain difference between Wireless and Fixed Telephone Networks.

**Q2) Attempt any TWO :**

**[16]**

- a) Given the following geometry, determine i) The loss due to knife edge diffraction and ii) The height of the obstacle required to induce 6dB diffraction loss. Assume  $f = 900$  MHz.



- b) Explain any one channel sounding technique.
- c) Draw and Explain Protocol Architecture of SS7.

P.T.O.

Q3) Write notes on any three :

[18]

- a) Ricean fading Distribution
- b) ISDN
- c) Any one Outdoor Propagation Model
- d) Global Cellular Network Interoperability

Q4) Attempt any Two :

[16]

- a) Give the details of evolution of public mobile & personal communication.
- b) What are hybrid spread spectrum techniques? Explain.
- c) Explain FHSS & DSSS offered by IEEE802.11.

Q5) Attempt any Two :

[16]

- a) Draw & explain Bluetooth security component & protocol architecture.
- b) Explain agent advertisement & packet format.
- c) Give the details of traditional & indirect TCP.

Q6) Write notes on any three :

[18]

- a) Transmission/time out freezing & Retransmission.
- b) Tunneling & Encapsulation.
- c) Space division multiple access (SDMA).
- d) Bluetooth protocol stacks.

