Government Polytechnic, Kotabagh (Nainital)

Model Question Paper for Practice

Branch: Electronics Engg. **Sub: Mobile Communication**

Time: 03 Hrs **Max Marks:** 50

SECTION – 'A'

Note: Attempt any Ten questions. (कोई दस प्रश्न हल कीजिए) **1x 10 = 10**

Q. 1. EM waves propagate with the speed of .....

Q.2. The **sky wave** actually gets..... from the Ionosphere.

Q.3. Ground wave propagation is mainly used for ..... band.

Q.4. Maximum usable frequency is .....

Q.5. **Paging system** operates in Simplex mode. **(True/False)**

Q.6. **FCC** stands for .....

Q.7.The two paging protocols used are ..... & .....

Q.8.Full form of **RSSI** is .....

Q.9. The maximum power output for Cordless telephone system has been fixed by FCC as 1 watt. **(True/False)**

Q.10. **Isotropic source** is one which radiates uniformly in all directions. **(True/False)**

Q.11. The Two Channel assignment techniques in Cellular radio system are..... & .....

Q.12.The Co-channel reuse ratio Q = ...

SECTION – 'B' (Short Answer Type) लघु उत्तरीय प्रश्न

Note: Attempt any Five questions. (कोई पाँच प्रश्न हल कीजिए) **3 x 05 = 15**

Q.1. Write a short note on Electromagnetic waves ?

Q.2. Define the capacity of a Cell in Cellular radio system ?

Q.3. Discuss the role/need of 'Power control' for reduction of Interference ?

Q.4. Define the 'Sectoring' technique in brief ?

Q.5 Define Hand-off process in short .

Q.6. Discuss the principle of 'Frequency Reuse' using a cluster of N=7 ?

Q.7. Write a short note on Blue tooth Technology ?

SECTION – 'C' (Long Answer Type) दीर्घ उत्तरीय प्रश्न

Note: Attempt any Five questions. (कोई पाँच प्रश्न हल कीजिए) **5 x 05 = 25**

Q. 1.Explain The "Paging System" along with its block diagram ?

Q. 2.Discuss the "Ionospheric wave propagation" ?

Q.3. Differentiate between "Co-channel Interference" and "Adjacent Channel Interference" ?

Q.4. Discuss the principle of 'Frequency Reuse' using a cluster of N=7 ?

Q.5.Write a short note on GSM ?

Q.6. What are Multiple Access Techniques? Discuss the "Spread Spectrum multiple access" technique in brief?

Q.7. Write a short note on any two of the following:

a) Doppler Effect

b) Repeater for Range Extension.

c) TDMA

d) RFID