

CDMA (Code division multiple access) Interview Questions And Answers Guide.



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CDMA (Code division multiple access) Job Interview Preparation Guide.

Question # 1

Explain the underlying functional concept of gsm and cdma?

Answer:-

GSM refers to Global System for Mobile communications while CDMA refers to Code Division Multiple Access.

Both are two different technologies in Telecommunications and behave differently in terms of giving voice and data services to the customer.

Though GSM is globally used technology - CDMA technology has more benefits in terms of call clarity, faster data speeds etc while GSM covers most of the network areas and has got variety of handsets to choose from, people prefer this technology.

Other than these 2 technologies we have other technologies like TDMA, WCDMA etc

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Question # 2

What is Scrambling Code?

Answer:-

Scrambling-code identification

During the third and last step of the cell search procedure, the UE determines the exact primary scrambling code used by the found cell. The primary scrambling code is typically identified through symbol-by-symbol correlation over the CPICH with all codes within the code group identified in the second step. After the primary scrambling code has been identified, the Primary CCPCH can be detected and the system- and cell specific BCH information can be read.

If the UE has received information about which scrambling codes to search for, steps 2 and 3 above can be simplified

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Question # 3

Do you know For CDMA, which is the weaker Link: FWD or Reverse? Why?

Answer:-

Reverse link is weak in CDMA because of use of PN Long codes compared to Walsh codes in the forward link. Since, Walsh codes are perfectly orthogonal in nature there is less interference in the forward link. PN long codes on the other hand are non-orthogonal in nature. However, we can't use Walsh codes for the reverse link as it may seem from the above as the best possible solution. This is because Walsh codes are very small in number (64/128/512 max), and hence are not sufficient for identification of large number of users in the reverse link for which the PN long codes are employed.

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Question # 4

Do you know What is the main difference between 1x RTT and 1X EVDO?

Answer:-

1) For 1xRTT has four forward and two reverse channels, whereas in EVDO channel structure is different.



2) 1x RTT supports upto 153.2 kbps of data, where as EVDO supports upto 3.1Mbps.

3)In 1x RTT during measurement pilot power ratio , Traffic power ratio are also taken into consideration; where as in EVDO FTAP , RTAP with Slots are taken into consideration

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Question # 5

what is cdma technology?

What was its origin ?

How it works?

How it is different from gsm?

Answer:-

1> cdma stands for code division multiple access; its frequency 800 mhz and 1900 mhz

2>channel bandwidth 12mhz with 1.25mhz for spread spectrum

3>in cdma we allocate a unique code to the user separately and allocate the total bandwidth to the user.

4>in gsm we divide the bandwidth into many time slots and allocate each time slot to the user.

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