

# CDMA Interview Questions And Answers Guide.



**Global Guideline.**

<https://globalguideline.com/>



## CDMA Job Interview Preparation Guide.

### Question # 1

Explain the difference between CDMA and GPRS and which of them is better and why?

#### Answer:-

The Differences:

CDMA is one of the types of mobile connections for making calls where as GPRS is a technology for internet connections through a mobile phone.

GPRS enables to surf the internet from a mobile phone. GPRS technology is used in other gadgets apart from mobile phones.

W-CDMA technology is faster than GPRS, since the user cares about the technology that is applied for air interface.

Average latency on GPRS is around 1.3 seconds, where as on CDMA is around 400 milli second

GPRS supports only User Datagram Protocol, where as CDMA supports both UDP and TCP

GPRS relies on Network Address Translation and a private IP address is assigned to it. On the other hand CDMA assigns a public IP address CDMA is better because:

E-mail is pretty light, until you enter MS-Office.

Pocket PC's support for office documents with similar functionality which can be had on Palm OS and Symbian

Upon availability of APIs, a software developer could write various applications, like voice transfer, data transfer to client's account, integrating billing amount etc.

Web services could be utilized .

[Read More Answers.](#)

### Question # 2

Explain CDMA One?

#### Answer:-

CDMA one refers original ITU IS-95 CDMA wireless interface protocol. It is considered as a 2G mobile wireless technology

The version IS-95A protocol employs a 1.25 Mhz carrier and data speeds up to 14.4 Kbps

The version IS-95B support data speeds up to 115 kbps by employing 800 MHz / 1.9 GHz.

[Read More Answers.](#)

### Question # 3

Do you know High Speed Packet Access?

#### Answer:-

HSPA is a combination of 2 mobile telephony protocols â€" High Speed Downlink Packet Access and High Speed Uplink Packet Access

HSPA improves the performance of existing WCDMA protocols.

HSPA provide increased performance by utilizing schemes of modulation and refining the protocols, through which the base stations and handsets communicate

HSPA is used for better usage of the available bandwidth provided by WCDMA

HSPA supports data rates of up to 14 MBit / s in the downlink

HSPA supports data rates of up to 5.8 MBit / s in the uplink

HSPA reduces the latency and increases up to 5 times more system capacity during downlink and twice more system capacity during uplink

HSPA uses 16QAM for yielding higher bit rates

HSPA rollouts are achieved by implementing software upgrades to existing 3G networks. This gives HSPA a head start over WiMax.

[Read More Answers.](#)

### Question # 4

Do you know what is the difference between CDMA and GSM?

#### Answer:-

Data Transfer Speed:

CDMA is faster than GSM.

CDMA2000 downstream rate is 2 megabits / second, through EVDO, where GSM downstream rate is up to 384 kilobits / second, through EDGE technology

Subscriber Identity Module (SIM) cards:

SIM is tied to the network, rather than the actual phone. Phones with card-enabled can be used with any carrier of GSM

Proprietary handsets are linked to one carrier only and not card-enabled in CDMA

Roaming:

GSM carriers have wider coverage of more rural areas, where as CDMA may not cover rural areas compared to GSM carriers

International Roaming:

GSM has facility to offer more international roaming, as the number of connections in world market dominate GSM network.



CDMA phones do not have the capacity; however, there are more countries that use CDMA networks.

[Read More Answers.](#)

### **Question # 5**

Explain Soft handoff?

**Answer:-**

Soft handoff is a feature in which a cellular phone is simultaneously connected to two or more cellular phones during a single call

It is the overlapping of repeater coverage areas, which enables every cell phone set to always be within the range of a specific repeater.

More than one repeater can send and receive signals to and from mobiles.

All repeaters are used with the same frequency channel for each mobile phone set.

Practically no dead zones and as a result, the connections seldom interrupted or dropped.

[Read More Answers.](#)

### **Question # 6**

Explain Softer handoff?

**Answer:-**

Softer handover is a significant soft handover in which the added and removed links belong to the same node

Macro diversity with maximum ratio combining could be performed in the same node

The movement of handoff, when a user can be served in another cell more efficiently (less power emission, less interference), is the most obvious cause for better performance.

[Read More Answers.](#)

### **Question # 7**

What is Sync. Channel?

**Answer:-**

A base station transmits a Sync-Channel that spreads with Walsh code 32.

The frame of sync channel is 80/3ms long with frame boundary aligned to the pilot.

Sync channel transmits a single message continually, called Sync Channel Message.

The Sync Channel Message contains network information, including the PN offset that is used by the Base Station sector.

The length and content of the message is dependent on the P\_REV.

The message transmission rate is 32 bits / frame.

The message is encoded to 128 symbols

The message yielding rate is 1200 bits / s.

[Read More Answers.](#)

### **Question # 8**

Explain EDGE?

**Answer:-**

EDGE is an acronym for Enhanced Data GSM Environment

An improved wireless technology over GSM

A 2nd generation cell phone technology

EDGE is used for wireless data transfer via mobile phone connection

Data transfer rates up to 4 times more than GSM networks

With the advent of Blackberry and iPhone, faster data transfer is sought

Using more sophisticated coding, usually without high end hardware, wireless carrier's base stations are supported for data transfer speeds up to 384 KBPS

EDGE is an alternative to replacing wireless technology, such as GPRS

EDGE will eventually be replaced by 3G technology such as WCDMA.

[Read More Answers.](#)

### **Question # 9**

What is EV-DO/ EVDO?

**Answer:-**

EVDO stands for Evolution Data Optimized

EVDO is a 3G broadband technology used by Verizon, Spring, Alltel

It provides typical download speeds of 600 to 1400 KBPS

A personal broadband service for wide range of customers

It is always On

EVDO utilizes CDMA signals

Users can be connected remotely for using email, downloading large files, spreadsheets etc.

EVDO is relatively low cost with high capacity

Allows rich web browsing and application usage

Seamless roaming, internal internet connectivity without relying on other's connection, accessibility to the corporate Virtual Private Network by customers are some of the advantages over WiFi .

[Read More Answers.](#)

### **Question # 10**

Do you know what is CDMA? Explain the technology?

**Answer:-**

CDMA stands for Code Division Multiple Access



## CDMA Interview Questions And Answers

---

CDMA is a wireless technology used in transmission of signal from places with high Security and noise reduction.

The principle of Spread Spectrum is used to work with CDMA.

Spread signal is below the noise level noise and has no effect on the signal.

CDMA does not frequency specific to each user. Instead, every channel uses the full available spectrum.

Individual conversations are encoded with a pseudo-random digital sequence.

CDMA always provides better capacity for voice and data communications

CDMA is a common platform for 3G technologies

Analog radio transmission technologies like Advanced Mobile Phone System were used in CDMA at the time of its inception

A unique code is received by all mobile network users and is allowed continuous network access instead of intermittent and timed access.

[Read More Answers.](#)

### Question # 11

CDMA2000?

**Answer:-**

CDMA2000 is a Multi-carrier code-division multiple access version of IMT-2000 standard

CDMA2000 is a 3G wireless technology.

World's first 3G commercial system was launched by SK Telecom of South Korea using CDMA2000 1X

CDMA 2000 supports mobile data communications at speeds from 144KBPS to 3MBPS

The versions of CDMA2000 have been developed by Qualcomm and Ericsson

There were 250,300,000 subscribers world for CDMA by March 2006.

[Read More Answers.](#)

### Question # 12

Please differentiate between CDMA and TDMA?

**Answer:-**

CDMA

Power limited system

While people talking, random noise band playing occurs

Conversation need to be extracted from the background din

GP is high when people speak different languages, which is easier to distinguish individual speakers

It is difficult for distinguishing individuals, when GP is low.

The system performance will be degraded for every user when the number of users increases.

Fading would be reduced with wide frequency spectrum

Need to have separate multipath signals with different delays by  $\alpha$  chip unit.

TDMA

Receiving or transmission is allowed for only one user in a given slot

All slots are assigned cyclically

The transmission is non-continuous

It is essential to use digital data and modulation

Data rate overhead is between 20% to 30%

Overhead tradeoffs are size of data payload and latency

Multiple users are shared with single carrier frequency

Handoff is made simpler by using non-continuous transmission

All slots are assigned on demand

Due to reduced inter user interference, the power control is less stringent

[Read More Answers.](#)

### Question # 13

Do you know what is the importance of CDMA in today's cellular world?

**Answer:-**

The transition to digital radio through the process of defining standards is implementing about 90% in the cellular industry.

Smooth transition to digital standards is involved in CDMA technology.

Most often, it can be viewed as improved and replacement technology of TDMA

Moving towards 4G technology is compatible with CDMA technology .

[Read More Answers.](#)

### Question # 14

Explain Pilot Channel?

**Answer:-**

A forward link channel which is a base to mobile that modulates only by the pilot PN. It spreads common codes to all signals transmitted from a given base station.

Several critical important functions are provided by the pilot channel for forward links in IS-95 systems

The pilot channel modulation facilitates the process of time synchronized replica generation at the receiver of the PN spreading sequences. These are utilized at the transmitter for modulating the synchronization, paging and traffic channels. These are transmitted from the same base station.

[Read More Answers.](#)

### Question # 15

What is DECT?

**Answer:-**

DECT is one of the wireless technologies, originated in Europe

DECT was designed to interwork with various networks such as PSTN, ISDN, GSM etc.

The initial standard. of DECT focused on developing air interface which is a radio link between cordless telephone and the base stations



## CDMA Interview Questions And Answers

---

This standard plugged into the telephone socket and the standard protocols for handover between several base stations  
All these are connected to the same office switchboard, typically a PABX  
The first product of its kind was from Olivetti, was a wireless LAN type product, known as NET3..

[Read More Answers.](#)

### **Question # 16**

Please differentiate between CDMA and FDMA?

#### **Answer:-**

CDMA

Same frequency is used by every user and simultaneous transmission occurs

Every narrowband signal is multiplied by wideband spreading signal, usually known as codeword

Every user has a separate pseudo-codeword, i.e., orthogonal to others

Only the desired codeword is detected by the receivers and others appear as noise

It is mandatory for the receivers to know about the transmitter's codeword

FDMA

When the channel is not in use, it sits simply idle

Bandwidth of Channel is relatively narrow (30 KHz), known as narrowband system

Little or no equalization is needed for spreading symbol time

Analog links are suitable for FDMA

Framing or synchronization bits are not needed for continuous transmission

Tight filtering is needed to minimize interference

Combined with FDD for duplexing

[Read More Answers.](#)

## Networking Most Popular Interview Topics.

- 1 : [CCNA Frequently Asked Interview Questions and Answers Guide.](#)
- 2 : [MCSE Frequently Asked Interview Questions and Answers Guide.](#)
- 3 : [Active Directory Frequently Asked Interview Questions and Answers Guide.](#)
- 4 : [CCNP Frequently Asked Interview Questions and Answers Guide.](#)
- 5 : [Routing Frequently Asked Interview Questions and Answers Guide.](#)
- 6 : [VPN Frequently Asked Interview Questions and Answers Guide.](#)
- 7 : [Networks and Security Frequently Asked Interview Questions and Answers Guide.](#)
- 8 : [VoIP Frequently Asked Interview Questions and Answers Guide.](#)
- 9 : [CCNA Security Frequently Asked Interview Questions and Answers Guide.](#)
- 10 : [LAN \(Local area network\) Frequently Asked Interview Questions and Answers Guide.](#)

## About Global Guideline.

**Global Guideline** is a platform to develop your own skills with thousands of job interview questions and web tutorials for fresher's and experienced candidates. These interview questions and web tutorials will help you strengthen your technical skills, prepare for the interviews and quickly revise the concepts. Global Guideline invite you to unlock your potentials with thousands of [Interview Questions with Answers](#) and much more. Learn the most common technologies at Global Guideline. We will help you to explore the resources of the World Wide Web and develop your own skills from the basics to the advanced. Here you will learn anything quite easily and you will really enjoy while learning. Global Guideline will help you to become a professional and Expert, well prepared for the future.

\* This PDF was generated from <https://GlobalGuideline.com> at **November 29th, 2023**

\* If any answer or question is incorrect or inappropriate or you have correct answer or you found any problem in this document then don't hesitate feel free and [e-mail us](#) we will fix it.

You can follow us on FaceBook for latest Jobs, Updates and other interviews material.  
[www.facebook.com/InterviewQuestionsAnswers](http://www.facebook.com/InterviewQuestionsAnswers)

Follow us on Twitter for latest Jobs and interview preparation guides  
<https://twitter.com/InterviewGuide>

Best Of Luck.

Global Guideline Team  
<https://GlobalGuideline.com>  
[Info@globalguideline.com](mailto:Info@globalguideline.com)