

Telecommunications Interview Questions And Answers Guide.



Global Guideline.

<https://globalguideline.com/>



Telecommunications Job Interview Preparation Guide.

Question # 1

How to explain what is SS7?

Answer:-

Common Channel Signaling System No. 7 (i.e., SS7 or C7) is a global standard for telecommunications defined by the International Telecommunication Union (ITU) Telecommunication Standardization Sector (ITU-T). The standard defines the procedures and protocol by which network elements in the public switched telephone network (PSTN) exchange information over a digital signaling network to effect wireless (cellular) and wireline call setup, routing and control.

[Read More Answers.](#)

Question # 2

What is a matrix in Telecommunication?

Answer:-

It is a rectangular table of elements, which may be any abstract quantities that can be added and multiplied i.e $m \times n$ where m is row and n is columns.

[Read More Answers.](#)

Question # 3

What is the best Rx power and Tx power at good RF Conditions?

Answer:-

If you're talking in the sense of Satellite then

it is 6 GHz uplink that is for transmitter and 4 GHz for downlink frequency that is receiver frequency.

[Read More Answers.](#)

Question # 4

Buffering is?

- a) the process of temporarily storing the data to allow for small variation in device speeds
- b) a method to reduce cross talks
- c) storage of data within transmitting medium until the receiver is ready to receive.
- d) a method to reduce routing overhead.

Answer:-

storage of data within transmitting medium until the receiver is ready to receive.

In my opinion the following procedure buffering follows so answer is c not a.

The following procedure follows:-

- 1 An alarm is written into the buffer.
- 2 The alarm is read from the buffer, sent, and re-sent until it successfully reaches the destination (receiver).
- 3 The alarm is removed from the buffer.

[Read More Answers.](#)

Question # 5

When a C function call is made, the order in which parameters passed to the function are pushed into the stack is?

- a) left to right
- b) right to left
- c) bigger variables are moved first than the smaller variables.
- d) smaller variables are moved first than the bigger ones.
- e) none of the above.

Answer:-

(b)

[Read More Answers.](#)

Question # 6



To send a data packet using datagram , connection will be established?

- a) before data transmission.
- b) connection is not established before data transmission.
- c) no connection is required.
- d) none of the above.

Answer:-

(c)

[Read More Answers.](#)

Question # 7

A 2MB PCM(pulse code modulation) has?

- a) 32 channels
- b) 30 voice channels & 1 signaling channel.
- c) 31 voice channels & 1 signaling channel.
- d) 32 channels out of which 30 voice channels, 1 signaling channel, & 1 synchronization channel.

Answer:-

Answer is D.

A 2Mb PCM line has 32 channels out of which 30 voice channels, 1 signaling channel, & 1 synchronization channel(time slot 0).

[Read More Answers.](#)

Question # 8

Memory allocation of variables declared in a program is?

- a) allocated in RAM.
- b) allocated in ROM.
- c) allocated on stack.
- d) assigned to registers.

Answer:-

a)allocated in RAM.

stack memory is used at the time of dynamic memory allocation

ex:- malloc();

[Read More Answers.](#)

Question # 9

What is TCSM ?

Answer:-

TRANSCODER SUBMULTIPLEXER

[Read More Answers.](#)

Question # 10

Time taken for 1 satellite hop in voice communication is?

- a) 1/2 second
- b) 1 seconds
- c) 4 seconds
- d) 2 seconds

Answer:-

1/2 second

[Read More Answers.](#)

Question # 11

Line of sight is?

- a) Straight Line
- b) Parabolic
- c) Tx & Rx should be visible to each other
- d) none of the above

Answer:-

The line of sight is the distance or the path up to which the the TX and the RX is visible to each other because for the proper transmission there should be a link or connectivity b/w the TX and the RX e.g. at the RF transmission the microwave links are required for the connectivity and data transmission.

[Read More Answers.](#)

Question # 12

What is the need of CPG message in ISUP protocol?

Answer:-

Consider any call forwarding scenario.As soon as switch receives Setup, it checks that the Called_Party has forwarded option activated and so tries to forward the call. Meanwhile, Switch sends CPG message towards originator saying that Call is in Progress.

[Read More Answers.](#)

Question # 13



Purpose of PC(Program Counter) in a Microprocessor is?

- a) To store address of TOS(Top Of Stack)
- b) To store address of next instruction to be executed.
- c) count the number of instructions.
- d) to store base address of the stack.

Answer:-

To store address of next instruction to be executed.

[Read More Answers.](#)

Question # 14

Conditional results after execution of an instruction in a micro processor is stored in?

- a) register
- b) accumulator
- c) flag register
- d) flag register part of PSW(Program Status Word)

Answer:-

flag register part of PSW(Program Status Word)

[Read More Answers.](#)

Question # 15

What is the nominal voltage required in subscriber loop connected to local exchange

- a) +48 volts
- b) -48 volts
- c) 230 volts
- d) 110 volts

Answer:-

48 volts. This -48 volts is required by the copper wires to prevent it from corroded & eluded.

[Read More Answers.](#)

Question # 16

The status of the Kernel is?

- a) task
- b) process
- c) not defined.
- d) none of the above.

Answer:-

The status of the Kernel is process

[Read More Answers.](#)

Question # 17

What is the maximal decimal number that can be accommodated in a byte?

- a) 128
- b) 256
- c) 255
- d) 512

Answer:-

ITS 256.

SINCE, 1 BYTE=8 BITS

THE LOGIC IS $2^8=256$ (2 TO THE POWER OF 8)

[Read More Answers.](#)

Question # 18

Frequency at which VOICE is sampled is?

- a) 4 KHz
- b) 8 KHz
- c) 16 KHz
- d) 64 KHz

Answer:-

The voice signals have a bandwidth of 4Khz (300hz-3400hz signal bandwidth + 450*2hz guard bands= 4000hz) according to Nyquist criteria, the sampling rate must be at least double of this total bandwidth. thus sampling rate= $2*4Khz = 8Khz$. this is the required sampling rate to avoid loss of voice signals in transmission.

[Read More Answers.](#)

Question # 19

What is the type of signaling used between two exchanges?

- a) inband
- b) common channel signaling
- c) any of the above
- d) none of the above.

**Answer:-**

Type of signaling used between two exchanges is inband

[Read More Answers.](#)

Question # 20

A software that allows a personal computer to pretend as a computer terminal is ?

- a) terminal adapter
- b) bulletin board
- c) modem
- d) terminal emulation

Answer:-

Software that allows a personal computer to pretend as a computer terminal is Terminal Emulation

[Read More Answers.](#)

Question # 21

How many T1 facilities the company needs between its office and the PSTN if it has 47 digital telephones, each operating at 64kbps

3 low-speed video machines, each operating at 384kbps

1 interactive video system, requiring 1.536 mbps.

Answer:-

Need 4 T1's.

Each T1 can accomodate 28 channels.

* 47 digital channels

* 3 low speed V.machines at 384 kbps.

= $384/64=6$ channels

* 1 interactive video systemat 1.536mbps.

= $1536/64=24$ channels.

So total= $47+6+24=89$ channels

each T1 requires 1 synchronizing channel & 1 signalling channel.

So 4 T1 requires 8 channels.

Total= $89+8=97$ channels.

4T1's = 112 channels- 96 channels= 15 channels(remains free)

[Read More Answers.](#)

Question # 22

What action is taken when the processor under execution is interrupted by a non-maskable interrupt?

- a) Processor serves the interrupt request after completing the execution of the current instruction.
- b) Processor serves the interrupt request after completing the current task.
- c) Processor serves the interrupt request immediately.
- d) Processor serving the interrupt request depends upon the priority of the current task under execution.

Answer:-

Processor serves the interrupt request after completing the execution of the current instruction.

[Read More Answers.](#)

Question # 23

Word alignment is?

- a) aligning the address to the next word boundary of the machine.
- b) aligning to an even boundary.
- c) aligning to a word boundary.
- d) none of the above.

Answer:-

Word alignment is aligning the address to the next word boundary of the machine.

[Read More Answers.](#)

Question # 24

Max number of satellite hops allowed in voice communication is:

- a) only one
- b) more han one
- c) two hops
- d) four hops

Answer:-

Max number of satellite hops allowed in voice communication is two hops

[Read More Answers.](#)

Information Technology (IT) Most Popular Interview Topics.

- 1 : [CISA Frequently Asked Interview Questions and Answers Guide.](#)
- 2 : [Computer Operator Frequently Asked Interview Questions and Answers Guide.](#)
- 3 : [Content Writer Frequently Asked Interview Questions and Answers Guide.](#)
- 4 : [Information Technology Analyst Frequently Asked Interview Questions and Answers Guide.](#)
- 5 : [IT Support Frequently Asked Interview Questions and Answers Guide.](#)
- 6 : [Assistant IT Frequently Asked Interview Questions and Answers Guide.](#)
- 7 : [Information Technology Frequently Asked Interview Questions and Answers Guide.](#)
- 8 : [Information Technology Executive Frequently Asked Interview Questions and Answers Guide.](#)
- 9 : [Informational Frequently Asked Interview Questions and Answers Guide.](#)
- 10 : [Social Work 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

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