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A Good Education is a Foundation For a Better Future

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(Final Term Past Paper)

MADE AND SOLVED BY TEAM HADI

WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Duration of bits is decided by _____ layer of the OSI model.

Answer (Please select your correct option)

Transport layer

Physical layer

Data link layer

Application layer

pg#45

Date Rate (Bits per second) also decided by the Physical Layer. So , Physical layer defines the Duration of a Bit. Means how long will a bit last

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Question No : 1 of 52

Marks: 1 (Budgeted Time 1 Min)

Line configuration is the function of _____ layer.

Answer (Please select your correct option)

- Data link
- Network
- Physical
- Transport

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

Line configuration is the function of _____ layer.

Answer (Please select your correct option)

Data link

Network

Physical

Transport

pg#45

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Question No : 2 of 52

Marks: 1 (Budgeted Time 1 Min)

_____decompose a composite signal into its components.

Answer (Please select your correct option)

Fourier analysis

Nyquist theorem

Carrier frequency

Shannon capacity

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

For transmitting analog signal over long distance, putting lower frequency component over higher frequency component is called _____.

Answer (Please select your correct option)



Modulation

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Digitization



Encoding



De-modulation

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Question No : 3 of 52

Marks: 1 (Budgeted Time 1 Min)

Wave position relative to zero is measured by _____.

Answer (Please select your correct option)

Frequency

Time Period

Phase

Phase describes the position of the waveform relative to time zero.

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Amplitude

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

- ISO
- ITU-T
- ANSI
- IEEE

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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

Telephony and telegraphy standards are mostly developed by _____.

Answer (Please select your correct option)

ISO



ITU-T

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Consultative Committee for International Telegraphy and Telephony (CCITT)
Pg # 24



ANSI



IEEE



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Question No : 4 of 52

Marks: 1 (Budgeted Time 1 Min)

The information to be communicated in a data communication system is the _____.

Answer (Please select your correct option)

Medium

Protocol

Message

Transmission

Information or Data to be communicated. pg # 7

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

Commonality in time domain plot and frequency domain plot is _____

Answer (Please select your correct option)

Frequency

Time

Amplitude

Time Domain plots show changes in signal amplitude w.r.t Time. and To show the relationship between amplitude and Frequency, we can use what is called a Frequency Domain Plot. pg # 63

Phase

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Question No : 5 of 52

Marks: 1 (Budgeted Time 1 Min)

In a network, _____ is the conduit between network nodes over which data moves.

Answer (Please select your correct option)

Link

Path

Circuit

Conductor

Circuit: the conduit over which data travels.

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

If transmission speed of a signal is 128(bps) then it means _____.

Answer (Please select your correct option)

Bit Rate: 128bits per second

Bit rate: 0.0078bits per second

Bit Rate: 64 Bits per second

Bit Rate: 1/128 bits per second

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Question No : 6 of 52

Marks: 1 (Budgeted Time 1 Min)

Trailer is only added at _____ layer of OSI model.

Answer (Please select your correct option)

- Data link *Data Link layer adds a HEADER to Frame pg # 46*
- Physical
- Network
- Application

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Question No : 7 of 52

Marks: 1 (Budgeted Time 1 Min)

Providing access to network resources is the function of _____ layer.

Answer (Please select your correct option)

Presentation

Application

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Session

Physical

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

In asynchronous transmission, the gap time between bytes is _____.

Answer (Please select your correct option)

Zero

Fixed

Variable

Infinity

Asynchronous means flexible or Not fixed pg # 156

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Question No : 9 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ topology operates data in both clock wise and anti-clock wise direction.

Answer (Please select your correct option)

Mesh

Ring

Tree

Star

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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

The _____ generates the data and passes it along with any control information to a _____.

Answer (Please select your correct option)

DTE, DCE



DCE, DTE



DCE, Nnode



DTE, Application



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Question No : 10 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is the process of assigning integral values from of a range of discrete values.

Answer (Please select your correct option)

Binary Encoding

PAM

Quantization

Modulation

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

According to _____ data rate is directly proportional to signal-to-noise ratio.

Answer (Please select your correct option)

CRC

Hamming Code

Shannon's Formula

Shannon's formula Data rate \propto Signal-to-noise ratio pg# 115

Nyquist Theorem

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Question No : 11 of 52

Marks: 1 (Budgeted Time 1 Min)

The visible light is currently used for communications in _____ cable.

Answer (Please select your correct option)

UTP

STP

Coaxial

Fiber Optic

Visible light, the third type of Electromagnetic energy currently used for communications is harnessed using fiber optic cable

pg#119

Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

In Cable Modems, the BW is normally divided into _____ bands using FDM.

Answer (Please select your correct option)



6MHz

This BW is normally divided into 6MHz bands using FDM pg # 118

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60MHz



8MHz



80MHz

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Question No : 12 of 52

Marks: 1 (Budgeted Time 1 Min)

The range of radio communication is _____.

Answer (Please select your correct option)

30 KHz to 30 GHz

3 KHz to 300 GHz

300 KHz to 300 GHz

3 MHz to 300 GHz

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is popular for supporting higher bandwidth and higher data rate.

Answer (Please select your correct option)

Coaxial Cable

Optical Fiber

STP

UTP

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Question No : 13 of 52

Marks: 1 (Budgeted Time 1 Min)

The speed of light is _____ in vacuume.

Answer (Please select your correct option)

3 Km/s

300 Km/s

300,000 Km/s

300,00 Km/s

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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

The section of EM spectrum defined as radio communication is divided into _____ ranges called Bands.

Answer (Please select your correct option)

5



6



8



10



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Question No : 14 of 52

Marks: 1 (Budgeted Time 1 Min)

Type of Optical Fiber cable is defined by the ratio of the _____ of its core to the diameter of its cladding.

Answer (Please select your correct option)

<input checked="" type="radio"/>	Diameter	<i>Optical Fibers are defined by the ratio of the diameter of their Core to the diameter of their Cladding</i>	pg # 130
<input type="radio"/>	Radius		
<input type="radio"/>	Length		
<input type="radio"/>	Density		

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

Radio wave transmission utilizes _____ different types of propagation.

Answer (Please select your correct option)

Two

Three

Four

Five

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Question No : 15 of 52

Marks: 1 (Budgeted Time 1 Min)

A parabolic dish antenna is a(n) _____ antenna.

Answer (Please select your correct option)

Omnidirectional

Bidirectional

Unidirectional

Horn

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Question No : 16 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ radio waves are radiated upward into the ionosphere where they are reflected back to earth.

Answer (Please select your correct option)

Low frequency

Higher frequency

Very low frequency

Middle frequency

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Question No : 17 of 52

Marks: 1 (Budgeted Time 1 Min)

The VLF and LF bands use _____ propagation for communications.

Answer (Please select your correct option)



Surface



Sky



Line of sight



Space

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ uses a series of filters to decompose multiplexed signal into its constituent signals.

Answer (Please select your correct option)

Modulator

Demodulator

MUX

DEMUX

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Question No : 18 of 52

Marks: 1 (Budgeted Time 1 Min)

There are _____ basic categories of multiplexing.

Answer (Please select your correct option)

- 2
- 3 FDM, TDM WDM PG # 148
- 4
- 5

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is a technique which specifically works on light beams.

Answer (Please select your correct option)

- FDM
- WDM
- TDM
- CDM

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Question No : 19 of 52

Marks: 1 (Budgeted Time 1 Min)

A prism deflects the light depending upon the angle of _____ and the frequency.

Answer (Please select your correct option)

Deviation

Incidence

Refraction

Reflection

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

Multiplexing is the set of techniques that allows simultaneous transmission of multiple signals across _____ data link(s).

Answer (Please select your correct option)

Multiple

Single

Double

Different

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Question No : 20 of 52

Marks: 1 (Budgeted Time 1 Min)

By using _____, data of one high speed line can be broken into multiple low speed streams.

Answer (Please select your correct option)

- Multiplexing
- Inverse Multiplexing
- TDM
- Asynchronous TDM

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Question No : 21 of 52

Marks: 1 (Budgeted Time 1 Min)

Using _____ technique, MUX adds extra bits to data.

Answer (Please select your correct option)

Bit Stuffing

In bit stuffing, MUX adds extra bits to a device pg#156

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Decompression

Switching

Exchanging

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Question No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)

In primary-secondary communication process, session is always initiated by _____.

Answer (Please select your correct option)

- Secondary device
- Intermediate device
- Any receiving device
- Primary device

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Question No : 22 of 52 Marks: 1 (Budgeted Time 1 Min)

_____ coordinates the amount of data that can be sent before receiving acknowledgment.

Answer (Please select your correct option)

- Error control
- Flow control
- Link control
- Line discipline

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Question No : 22 of 52 Marks: 1 (Budgeted Time 1 Min)

Addressing is not needed in _____ configuration in the perspective of line discipline.

Answer (Please select your correct option)

- Routers
- Point to Point
- Multipoint
- Multipoint and Point to Point

o For point-to-point configuration, there is no need for addressing pg # 190

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

In line discipline, the initiator first transmits a frame called an _____ .

Answer (Please select your correct option)

- Enquiry *ENQ (Enquiry)* pg # 189
- Acknowledgment
- NAK
- EOT

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Question No : 23 of 52

Marks: 1 (Budgeted Time 1 Min)

Primary device uses _____ to receive transmission from the secondary devices.

Answer (Please select your correct option)

- ACK
- ENQ
- POLL
- PSK

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Question No : 24 of 52

Marks: 1 (Budgeted Time 1 Min)

If sender sent some frames from 0 to 10 and received the 'ACK 5' then according to the method Go-Back-N ARQ, the receiver has received _____ frame(s).

Answer (Please select your correct option)

- 0
- 0 to 5
- 0 to 4
- 0 to 10

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Question No : 25 of 52

Marks: 1 (Budgeted Time 1 Min)

Error control in the data link layer is based on _____.

Answer (Please select your correct option)

- Automatic repeat acknowledgment
- Automatic send acknowledgment
- Automatic deny request
- Automatic repeat request

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Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

Data link protocols can be divided into _____ sub-groups.

Answer (Please select your correct option)

- Two pg # 202
- Three
- Four
- Five

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Question No : 26 of 52

Marks: 1 (Budgeted Time 1 Min)

YMODEM supports _____ Bytes data unit.

Answer (Please select your correct option)

- 128
- 256
- 512
- 1024

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Question No : 27 of 52

Marks: 1 (Budgeted Time 1 Min)

BLAST stands for _____ .

Answer (Please select your correct option)

Blocked asynchronous transmission

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Blocked synchronous transmission

Barrel asynchronous transmission

Below asynchronous transmission

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Question No : 28 of 52

Marks: 1 (Budgeted Time 1 Min)

The _____ field defines the beginning and ending of an HDLC frame.

Answer (Please select your correct option)

- Flag pg # 214
- Address
- Control
- FCS

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Question No : 29 of 52

Marks: 1 (Budgeted Time 1 Min)

CSMA/CD stands for_____.

Answer (Please select your correct option)

- Carrier sense multiple access/collision detection
- Collision sense multiple access/collision detection
- Collision stop multiple access/collision detection
- Control software multiple access/collision detection

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Question No : 29 of 52 Marks: 1 (Budgeted Time 1 Min)

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- First
- Second
- Third
- Last

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

FDDI stands for _____.

Answer (Please select your correct option)

- Fiber Distributed Data Interface
- Flexible Distributed Data Interface
- Fast Distributed Data Interface
- Fiber Distorted Data Interface

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Question No : 30 of 52

Marks: 1 (Budgeted Time 1 Min)

_____ is the access protocol used by traditional Ethernet.

Answer (Please select your correct option)

- CSMA
- CSMA/DC
- CSMA/CD
- CSMA/CC

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Question No : 31 of 52

Marks: 1 (Budgeted Time 1 Min)

The _____ bit of the DSAP indicates whether the frame is intended for an individual or a group.

Answer (Please select your correct option)

- First *The first bit of the DSAP indicates whether the frame is intended for an individual or a group* pg # 202
- Second
- Third
- Last

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Question No : 31 of 52 Marks: 1 (Budgeted Time 1 Min)

In FDDI, THT stands for _____.

Answer (Please select your correct option)

- Target Holding Timer
- Tier Holding Timer
- Token Hash Timer
- Token Holding Timer

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

In Fast Ethernet, the maximum supported data rate is _____.

Answer (Please select your correct option)

- 10Mbps
- 100Mbps
- 1Gbps
- 10Gbps

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Question No : 32 of 52

Marks: 1 (Budgeted Time 1 Min)

RARP stands for _____.

Answer (Please select your correct option)

- Reverse Address Revolution Protocol
- Reverse Address Resolution Protocol
- Reverse Address Routing Protocol
- Reverse Address Reverse Protocol

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Question No : 33 of 52

Marks: 1 (Budgeted Time 1 Min)

A telephone network is an example of a _____ network.

Answer (Please select your correct option)

- Packet-switched
- Circuit-switched
- Message-switched
- Frame-switched

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

Bridges can divide a large _____ into smaller segments.

Answer (Please select your correct option)

- Network
- Packet
- Frame
- Address

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Question No : 34 of 52

Marks: 1 (Budgeted Time 1 Min)

The data rate of a T-1 line is _____.

Answer (Please select your correct option)

- 2.544 Mbps
- 1.544 Mbps
- 1.544 Kbps
- 1.544 Gbps

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Question No : 35 of 52

Marks: 1 (Budgeted Time 1 Min)

FTTC stands for _____.

Answer (Please select your correct option)

Flexible to the curb

Fiber to the curb

pg # 164

Fiber to the cable

Fiber to the center

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

In the process of CRC, _____ has not any importance and is not attached with data at sender/receiver side.

Answer (Please select your correct option)

- Quotient *not sure*
- Divisor
- Dividend
- Remainder

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Question No : 36 of 52

Marks: 1 (Budgeted Time 1 Min)

If the ASCII character H is sent and the character I is received, then _____ type of error is occurred.

Answer (Please select your correct option)

- Single-bit
- ASCII error
- Burst
- Undetectable

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Question No : 37 of 52

Marks: 1 (Budgeted Time 1 Min)

In CRC there is no error if the remainder at the receiver side is _____.

Answer (Please select your correct option)

- Equal to the remainder at the sender side
- Zero
- Nonzero
- Equal to the quotient at the sender side

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Question No : 38 of 52 Marks: 1 (Budgeted Time 1 Min)

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

- A polynomial is
- A CRC remainder is
- 0's are
- 1's are

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

In the process of CRC, the quotient at the sender is _____.

Answer (Please select your correct option)

- The dividend at the receiver
- The divisor at the receiver
- Ignored
- The remainder at receiver

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Question No : 39 of 52

Marks: 1 (Budgeted Time 1 Min)

According to odd parity for error detection, if the number of 1's in the data segment are _____ then 0 is attached.

Answer (Please select your correct option)

- Even
- Odd
- Twelve
- Ten

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

A polynomial is

A CRC remainder is

0's are

1's are

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Question No : 40 of 52

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At the CRC generator, _____ added to the data unit before the division process.

Answer (Please select your correct option)

A polynomial is

A CRC remainder is

0's are

1's are

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Question No : 40 of 52

Marks: 1 (Budgeted Time 1 Min)

IEEE divided the Baseband category into _____ standards.

Answer (Please select your correct option)

- 2
 - 3
 - 4
 - 5
- IEEE divides the base band category into 5 standards:
-10 Base 5 , 10 Base 2, 10 Base-T, 1 Base 5, 100 Base-T*

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