

Question No. 60

Multiple Choice (Select 1 out of 4 options, for the question)

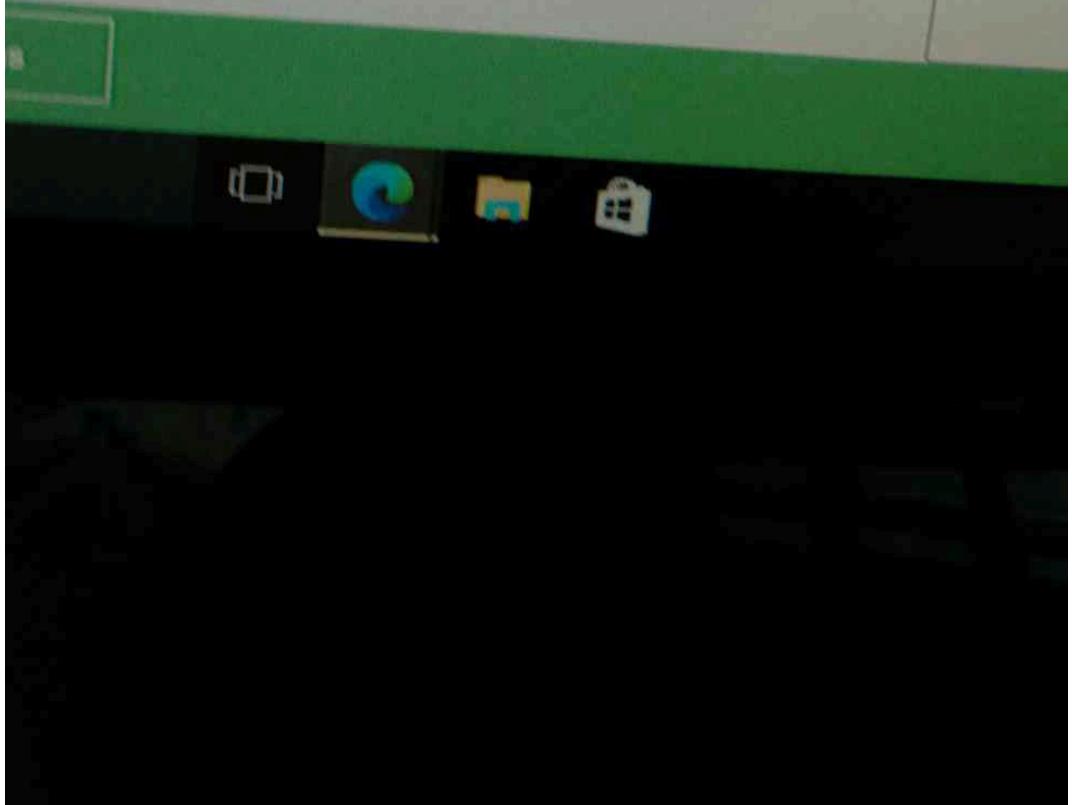
A transistor has a current gain of 0.99 in the CB mode. I

Options

- 100
- 99
- 0.99
- 1.01

Ch

Please ty



Question No: 49

Multiple Choice (Select 1 out of 4 options, for the question)

For a BJT, under the saturation region

Options

- IC = βI_B
- IC > βI_B
- IC is independent of other parameter
- IC < βI_B

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Question No: 48

Multiple Choice (Select 1 out of 4 options, for the question)

What is the upper frequency of a signal with a bandwidth of

Options

- 60Hz
- 60Mhz
- 48Hz
- 48Mhz

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Question No: 47

Multiple Choice (Select 1 out of 4 options, for the question)

The maximum peaks of an electromagnetic wave are separated by

Options

- 1477.8Khz
- 1477.8Mhz
- 256.7Mhz
- 256.4Khz

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Question No: 46

Multiple Choice (Select 1 out of 4 options, for the question)

The code where all successive numbers differ from their p

Options

- BCD
- Excess
- Gray
- Alphanumeric Code

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Question No: 45

Multiple Choice (Select 1 out of 4 options, for the question)

Assertion (A): FET is a unipolar device. Reason (R): BJT

Options

- A is true but R is false
- Both A and R are true and R is correct explanation of A
- A is false but R is true
- Both A and R are true but R is not a correct explanation of A

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Multiple Choice (Select 1 out of 4 options, for the question below)

The forbidden energy gap between the valence band and conduction band is called

options

- semiconductors
- insulator
- NONE OPTIONS ARE CORRECT
- metals

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Question No: 43

Multiple Choice (Select 1 out of 4 options, for the question below)

The given hexadecimal number $(1E.53)_{16}$ is equivalent to _____

Options

- (35.684)₈
- (35.599)₈
- (36.246)₈
- (34.340)₈

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Multiple Choice (Select 1 out of 4 options, for the question below)

How does HSCSD differs from the GSM to obtain higher speed

options

- By allowing single user to use one specific time slot
- By allowing multiple users to use individual time slot
- By allowing single user to use consecutive user time slots
- By using 8-PSK modulation technique

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Question No. 41

Multiple Choice (Select 1 out of 4 options, for the question below)

DeMorgan's theorem states that _____

Options

- $(AB)' = A' + B$
- $A' + B' = A'B'$
- $(AB)' = A' + B'$
- $(A + B)' = A' * B$

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Question No: 40

Multiple Choice (Select 1 out of 4 options, for the question be

At very high temperatures the extrinsic semiconductors be

options

- band to band transition dominants over impurity ionization
- impurity ionization dominants over band to band transition
- band to band transition is balanced by impurity ionization
- drive in diffusion of dopants and carriers

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Question No: 39

Multiple Choice (Select 1 out of 4 options, for the question below)
For ideal non-inverting operational amplifier

Options

- Input resistance is zero and output resistance is infinite
- Input and output resistances are infinite
- Input and output resistances are zero
- Input resistance is infinite and output resistance is zero

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Question No: 38

Multiple Choice (Select 1 out of 4 options, for the question be

JMTS is also known as _____

Options

- CdmaOne
- IS-95
- W-CDMA
- GPRS

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Question No: 37

Multiple Choice (Select 1 out of 4 options, for the question below)

At room temperature the current in an intrinsic semiconductor is due to

options

- electrons
- ions
- holes and electrons
- holes

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Question No: 36

Multiple Choice (Select 1 out of 4 options, for the question below)

Which one of the following is not a source of infrared radiation?

Options

- Human bodies
- Light bulbs
- Sun
- Books

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Question No: 35

Multiple Choice (Select 1 out of 4 options, for the question below)

Principally CRO is

options

- Ammeter
- Voltmeter
- Wattmeter
- Watt-hour meter

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Question No: 34

Multiple Choice (Select 1 out of 4 options, for the question below)

Convert binary to octal: $(110110001010)_2 = ?$

Options

- (6745)₈
- (4532)₈
- (5512)₈
- (6612)₈

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Question No: 33

Multiple Choice (Select 1 out of 4 options, for the question below)

UMTS use which multiple access technique?

Options

- CDMA
- TDMA
- FDMA
- SDMA

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Question No: 32

Multiple Choice (Select 1 out of 4 options, for the question be

Which of the following 3G standard is used in Japan?

Options

- UMTS
- Cdma2000
- UTRA
- TD-SCDMA

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Question No: 31

Multiple Choice (Select 1 out of 4 options, for the question be

Binary coded decimal is a combination of _____

Options

- Two binary digits
- Five binary digits
- Three binary digits
- Four binary digits

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Question No: 30

Multiple Choice (Select 1 out of 4 options, for the question b)

In a bipolar transistor the barrier potential

Options

- 0
- a total of 0.7 V
- 0.7 V across each depletion layer
- 0.35 V

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Question No: 29

Multiple Choice (Select 1 out of 4 options, for the question be

Which of the following leads to the 3G evolution of GSM, IS-1;

Options

- GPRS
- EDGE
- HSCSD
- W-CDMA

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Question No: 28

Multiple Choice (Select 1 out of 4 options, for the question below)

The power dissipation in a transistor is the product of

Options

- emitter current and emitter to base voltage
- NONE OPTIONS ARE CORRECT
- emitter current and collector to emitter voltage
- collector current and collector to emitter voltage

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Question No: 27

Multiple Choice (Select 1 out of 4 options, for the question below)

What is 3GPP2?

Options

- Project based on cdma2000
- Project based on 2G standards
- Project based on 2.5G standards
- Project based on W-CDMA

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Question No: 26

Multiple Choice (Select 1 out of 4 options, for the question below)

The forbidden energy gap in semiconductors

Options

- lies just above the CB
- lies between the VB and CB
- is always zero
- lies just below the VB

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Question No: 25

Multiple Choice (Select 1 out of 4 options, for the question be

In which region of a CE bipolar transistor is collector current

Options

- Active region
- Breakdown region
- none of these
- Saturation region

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Question No: 24

Multiple Choice (Select 1 out of 4 options, for the question below)

An electron in the conduction band

Options

- has higher energy than the electron in the valence band
- jumps to the top of the crystal
- has lower energy than the electron in the valence band
- loses its charge easily

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Question No: 23

Multiple Choice (Select 1 out of 4 options, for the question below)

The SI units of transconductance is

Options

- Volt/ amp
- Ohm
- Siemens
- Amp/ volt

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Question No: 22

Multiple Choice (Select 1 out of 4 options, for the question below)

The hfe parameter is called _____ in CE arrangement with

Options

- Current gain
- Input impedance
- Output impedance
- Voltage Gain

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Question No: 21

Multiple Choice (Select 1 out of 4 options, for the question below)

1's complement of 1011101 is _____

Options

- 1001101
- 0100010
- 1100101
- 0101110

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Question No: 20

Multiple Choice (Select 1 out of 4 options, for the question b)

Which of the following is a 2.5G CDMA standard?

Options

- IS-95
- CdmaOne
- Cdma2000
- IS-95B

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Question No: 19

Multiple Choice (Select 1 out of 4 options, for the question)

Discrete time signal is derived from continuous time signal by

Options

- Multiplying
- Sampling
- Addition and multiplication
- Addition

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Question No: 18

Multiple Choice (Select 1 out of 4 options, for the question)

The range of electromagnetic signals encompassing all frequencies is called

Options

- EM frequency
- EM spectrum
- EM radiation
- EM waves

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Question No: 17

Multiple Choice (Select 1 out of 4 options, for the question)

The representation of octal number $(532.2)_8$ in decimal is

Options

- (532.864)₁₀
- (340.67)₁₀
- (531.668)₁₀
- (346.25)₁₀

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Question No: 16

Multiple Choice (Select 1 out of 4 options, for the question)

Which of the following is true for complex-valued function?

Options

- $X(-t) = x^*(t)$
- $X(-t) = x(t)$
- $X(-t) = x^*(-t)$
- $X(-t) = -x(t)$

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Question No: 15

Multiple Choice (Select 1 out of 4 options, for the question)

What is the name of the internet microbrowser technology

Options

- I-mode
- W-mode
- Hypertext Markup Language
- Wireless Application Protocol

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Question No: 14

Multiple Choice (Select 1 out of 4 options, for the question)

Which new modulation technique is used by EDGE?

Options

- DQPSK
- BPSK
- AFSK
- 8- PSK

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Question No: 13

Multiple Choice (Select 1 out of 4 options, for the question)

What is the term used by ITU for a set of global standards

Options

- GSM
- CDMA
- EDGE
- IMT 2000

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Question No: 12

Multiple Choice (Select 1 out of 4 options, for the question)

Which of the following is not an application of third generation?

Options

- Global Positioning System (GPS)
- Downloading rate upto 1 Gbps
- Video conferencing
- Mobile TV

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Question No: 11

Multiple Choice (Select 1 out of 4 options, for the question)

Which of the following is not a terminal for the operational amplifier?

Options

- Output terminal
- Inverting terminal
- None of the mentioned
- Non-inverting terminal

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Question No: 10

Multiple Choice (Select 1 out of 4 options, for the question)

The ripple factor for a bridge rectifier is

Options

- 1.21
- 0.48
- 0.54
- 1.41

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Question No: 09

Multiple Choice (Select 1 out of 4 options, for the question)

In an n-p-n transistor, the majority carriers in the base are

Options

- electrons
- either holes or electrons
- holes
- both holes and electrons

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Question No: 08

Multiple Choice (Select 1 out of 4 options, for the question)

If α_{ac} for transistor is 0.98 then β_{ac} is equal to

Options

- 51
- 49
- 45
- 47

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Question No: 07

Multiple Choice (Select 1 out of 4 options, for the question)

How is HSCSD different from GPRS?

Options

- Modulation technique
- Infrastructure
- Switching Technique
- Multiple Access Scheme

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Question No: 06

Multiple Choice (Select 1 out of 4 options, for the question)

In a bipolar transistor which current is largest

Options

- base current
- base/emitter current
- collector current
- emitter current

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Question No: 05

Multiple Choice (Select 1 out of 4 options, for the question)

What is single-valued function?

Options

- A single pattern is followed by after 't' intervals
- Single value for all instants of time
- Different pattern of values is followed by after 't' intervals
- Unique value for every instant of time

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Question No: 04

Multiple Choice (Select 1 out of 4 options, for the correct answer)

What is the wavelength of a signal with a frequency of 10 MHz?

Options

- 10m
- 2m
- 5m
- 20m

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Question No: 03

Multiple Choice (Select 1 out of 4 options, for the)

The portion of the electromagnetic spectrum occupied by a signal is called its

Options

- Signal strength
- Frequency width
- Signal spectrum
- Bandwidth

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Question No: 02

Multiple Choice (Select 1 out of 4 options, for the correct answer)

The maximum efficiency of Half wave rectifier is

Options

- 33.33%
- 40.60%
- 68.00%
- 50.00%

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Question No: 01

Multiple Choice (Select 1 out of 4 options, fo

A-P type material has an acceptor ion con
electron mobilities are $0.05 \text{ m}^2/\text{V}\cdot\text{sec}$ and $0.13 \text{ m}^2/\text{V}\cdot\text{sec}$

Options

- 125 $\Omega\text{-cm}$
- 1.25 $\Omega\text{-cm}$
- 0.125 $\Omega\text{-cm}$
- 12.5 $\Omega\text{-cm}$

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VS

