Question Paper Preview

Notations:

1.Options shown in green color and with ✓ icon are correct. 2.Options shown in red color and with * icon are incorrect. **Question Paper Name:** M Sc Electronics 21st Sep 2021 Shift 1 **Subject Name:** M.Sc. Electronics **Creation Date:** 2021-09-21 12:58:47 **Duration:** 90 **Total Marks:** 100 **Display Marks:** No Calculator: None Magnifying Glass Required?: No **Ruler Required?:** Nο **Eraser Required?:** No **Scratch Pad Required?:** No Rough Sketch/Notepad Required?: No **Protractor Required?:** No **Show Watermark on Console?:** Yes **Highlighter:** No Auto Save on Console? (SA type of questions will Yes be always auto saved):

M.Sc. Electronics

Group Number: 1

Group Id: 96835546

Group Maximum Duration : 0

Group Minimum Duration: 90

Show Attended Group?: No

Edit Attended Group?: No

Break time :

Group Marks: 100

Is this Group for Examiner?: No

PART A

0

Section Id: 96835564

Section Number: 1

Section type: Online

Mandatory or Optional: Mandatory

Number of Questions: 100

Number of Questions to be attempted: 100

Section Marks: 100

Enable Mark as Answered Mark for Review and

Yes

Clear Response :

Sub-Section Number: 1

Sub-Section Id: 96835588

Question Shuffling Allowed : Yes

Question Number: 1 Question Id: 9683554851 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The minimized form of (A + AB + ABC + ABCD + ABCDE +) is

Options:

.

Question Number: 2 Question Id: 9683554852 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

What is the output of x = 1?

Options:

 $Question\ Number: 3\ Question\ Id: 9683554853\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The minimum form of the Boolean expression [(X + Y + XY).(X + Z)] is

 ${\bf Question\ Number: 4\ Question\ Id: 9683554854\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Which of the following Boolean algebraic expressions is incorrect?

Options:

$$A = A + B(A + C) = A + BC$$

$$(A + \overline{B})(A + B) = A$$

 ${\bf Question\ Number: 5\ Question\ Id: 9683554855\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The reduced form of the expression A + A.B is

Question Number: 6 Question Id: 9683554856 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Add the following 11011 + 01101

Options:

Question Number: 7 Question Id: 9683554857 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

If $(128)_{10} = (1003)_b$, the value of b is

- 2. * 4
- 3. 🗸 5
- 4. * 6

Question Number: 8 Question Id: 9683554858 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Half adder circuit is constructed using

Options:

- 1. * NAND gate and XOR gate
- 2. NOR gate and XOR gate
- 3. SOR gate and XOR gate
- AND gate and XOR gate

Question Number: 9 Question Id: 9683554859 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A combinational logic circuit

Options:

1 * Must contain flip flops

2. Must contain latches 3. Does not contain flip flops 4. * Does not contain latches Question Number: 10 Question Id: 9683554860 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 A Latch is an example of **Options:** Monostable multivibrator 2. * Astable multivibrator 3. Bistable multivibrator 555 Timer

Question Number : 11 Question Id : 9683554861 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Correct Marks: 1 Wrong Marks: 0

The minimum number of flip flops required to design a mod-10 ripple counter is

Options:

1. * 10

2. ***** 9

Question Number : 12 Question Id : 9683554862 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

While converting a JK flip flop to D flip flop, if a buffer is connected between J and K inputs instead of an inverter, it results in a

Options:

- JK flip itself
- 2. D flip flop
- T flip flop
- 4. RS flip flop

Question Number: 13 Question Id: 9683554863 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory : No

Correct Marks: 1 Wrong Marks: 0

A cascade of three identical modulo - 5 counters has an overall modulus of

Options:

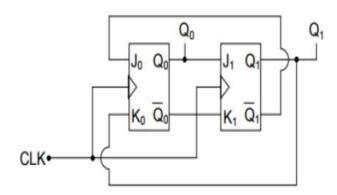
1. * 5

Question Number: 14 Question Id: 9683554864 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

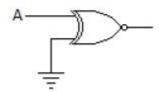
In the following sequential circuit, the initial state (before the first clock pulse) of the circuit is $Q_1Q_0 = 00$. The state (Q_1Q_0) , immediately after the 7^{th} clock pulse is



Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

. For the gate in the given figure the output will be



Options:

- 1 * 0
- 2. * 1
- 3. ***** A
- 4. 🗸 Ā

 ${\bf Question\ Number: 16\ Question\ Id: 9683554866\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A group of bits 11001 is serially shifted (right most bit is LSB) into a 5-bit parallel output register with an initial state 01110. After 3 clock pulses the register contains:

- 01110
- 2. * 11001
- 00101

Question Number: 17 Question Id: 9683554867 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

An 8-bit Serial-in/Parallel-out shift register is used with a clock frequency of 2 MHz. with the initial value of the register 0000 0000, the time required to send 8-input value to the output is

Options:

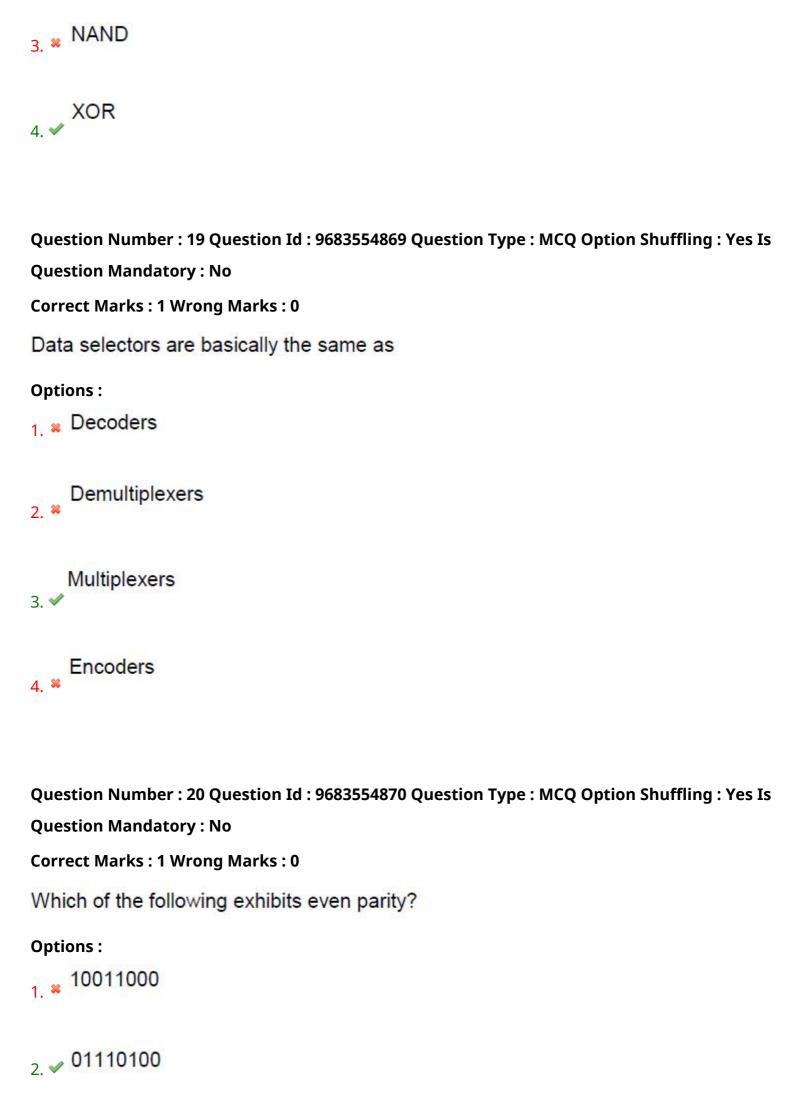
$$_{2.}$$
 \checkmark 4 μ – sec

Question Number: 18 Question Id: 9683554868 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The most suitable gate for comparing two bits is



3. **×** 11100011

4. * 00110010

Question Number: 21 Question Id: 9683554871 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A 4-bit ripple counter consists of flip flops that each have a propagation delay from clock to Q output of 12ns. For the counter to recycle from 1111 to 0000, it takes a total of

Options:

12 ns

24 ns

3. **48 ns**

4. × 36 ns

Question Number : 22 Question Id : 9683554872 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A 10 MHz clock frequency is applied to a cascaded counter consisting of a modulus-5 counter, a modulus-8 counter, and two modulus-10 counters. The lowest frequency possible is

Question Number: 23 Question Id: 9683554873 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

.The terminal count of modulus-13 binary counter is

Options:

Question Number: 24 Question Id: 9683554874 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

When an 8-bit serial in/serial out shift register is used for 24 $\mu-secs$ time delay, the clock frequency must be

Options:

- 1. * 41.67 KHz
- 2. **✓** 3333 KHz
- 3. * 12 KHz
- 4. * 8 MHz

 ${\bf Question\ Number: 25\ Question\ Id: 9683554875\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A memory with 256 address has

Options:

- 1 × 256 address line
- 2. * 6 address lines
- 3. * 1 address line
- 4. 8 address lines

Question Number: 26 Question Id: 9683554876 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Optical storage devices employ

Options:

- 1. ** Ultraviolet light
- 2. * Electromagnetic fields
- Optical couplers
- 4. Lasers

Question Number: 27 Question Id: 9683554877 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The capacity relationship is given by

Options:

Question Number: 28 Question Id: 9683554878 Question Type: MCQ Option Shuffling: Yes Is

.A "periodic function" is given by a function which

Options:

- 1. * Has a period T = 2π
- 2. Satisfies f (t + T) = f (t)
- Satisfies f(t + T) = -f(t)
- Has a period T = π

Question Number: 29 Question Id: 9683554879 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Determine the Fourier transform of unit step x(t) = u(t)

Options:

Question Number: 30 Question Id: 9683554880 Question Type: MCQ Option Shuffling: Yes Is

Correct Marks: 1 Wrong Marks: 0 The sampling technique having the minimum noise interference is **Options:** 1. * Instantaneous sampling 2. Natural sampling Flat top sampling Differential sampling Question Number: 31 Question Id: 9683554881 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 In pulse amplitude modulation, **Options:** Amplitude of the pulse train is varied 2. * Width of the pulse train is varied Frequency of the pulse train is varied

Question Number : 32 Question Id : 9683554882 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No

Phase of the pulse train is varied

A 4- bit D/A converter is constructed using Resistive divider network, then the analog voltage for digital input of 1101 is (0V -'0', 10V - '1')

Options:

- 7(1/3) V
- 2. × 13/16 V
- 8.125 V 3. ✔
- 4. * 13.125 V

Question Number: 33 Question Id: 9683554883 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

What is the major advantage of R-2R Ladder DAC over Resistive divider network?

Options:

- 1 x It uses only 4 resistors
- It uses the same number of inputs
- It is easier to analyse
- ↓ It uses only 2 resistors

Question Number : 34 Question Id : 9683554884 Question Type : MCQ Option Shuffling : Yes Is

| Question Mandatory : No |
|---|
| Correct Marks : 1 Wrong Marks : 0 |
| In which type of modulation, the carrier waves are in the form of pulses? |
| Options : 1. Pulse modulation |
| 2. * Continuous modulation |
| Angle modulation 3. ** |
| Phase modulation 4. ** |
| Question Number : 35 Question Id : 9683554885 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| Which of the following is a type of random error? |
| Options : 1. ✓ Sampling |
| 2. Non-sampling |
| |
| 3. * Probable Average |

Question Number: 36 Question Id: 9683554886 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 In Remote controlled cars, which type of modulation is used? **Options:** 1. * Pulse amplitude Pulse position Pulse width Quadrature Question Number: 37 Question Id: 9683554887 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 The process of converting the analog sample into discrete form is **Options:** Modulation 2. * Demodulation 3. Quantization

4. Sampling

Question Number: 38 Question Id: 9683554888 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 Which of the following is the sequence of operations in PCM? **Options:** 1 . Quantizing, Sampling, encoding Sampling, encoding, quantizing, Sampling, encoding, decoding 3. 🗱 Sampling, quantizing, encoding 4. 🗸 Question Number: 39 Question Id: 9683554889 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 The digital modulation technique in which the step size is varied according to the variation in the slope of the input is called **Options:** Delta modulation 2. * PCM Adaptive delta modulation

4. * PAM

Question Number: 40 Question Id: 9683554890 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Polar coding is a technique in which

Options:

1. 1 is transmitted by a positive pulse and 0 is transmitted by negative pulse

1 is transmitted by a positive pulse and 0 is transmitted by zero volts

1 is transmitted by a 5V and 0 is transmitted by zero volts

1 is transmitted by a negative pulse and 0 is transmitted by positive pulse

Question Number: 41 Question Id: 9683554891 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The main function of a capacitor is to

Options:

Store energy

2. * Dissipate heat

3. * Help current flow

4. * Block current flow

Question Number: 42 Question Id: 9683554892 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Kirchhoff's laws are true

Options:

Only if there is DC source in the circuit

Only if there is AC source in the circuit

Both for AC & DC sources

For active networks only

 $Question\ Number: 43\ Question\ Id: 9683554893\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is$

Question Mandatory : No

Correct Marks: 1 Wrong Marks: 0

The peak value of an alternating voltage is 423 V. It's root mean square value is

Question Number: 44 Question Id: 9683554894 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 Polar form of E=3+j4 Options: 1.

5 L53.13 2. × 5 L43.13 3. **2**5 L53.13 4. **2**5 L43.13 Question Number: 45 Question Id: 9683554895 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 If the resistance in parallel with a parallel resonant circuit is reduced, the bandwidth **Options:** Decreases Becomes sharper Increases

Question Number: 46 Question Id: 9683554896 Question Type: MCQ Option Shuffling: Yes Is

Disappears

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The resistance of 200 watt and 100 watt bulbs of the same voltage are respectively R1&R2. Then

Options:

- 1. * R₁=2R₂
- 2. R2=2R1
- 3. * R₂=4R₁
- 4. * R₁=4R₂

 $Question\ Number: 47\ Question\ Id: 9683554897\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Ideal current source have

Options:

- Zero internal resistance
- 2. Infinite internal resistance
- Low value of current
- 4. * Large value of current

Question Number: 48 Question Id: 9683554898 Question Type: MCQ Option Shuffling: Yes Is

| Question Mandatory : No |
|---|
| Correct Marks : 1 Wrong Marks : 0 |
| Which of the following is the passive element? |
| Options: |
| 1. Capacitor |
| 2. * Ideal current source |
| 3. * Ideal voltage source |
| Resistance 4. * |
| Question Number : 49 Question Id : 9683554899 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| For maximum transfer of power internal resistance of the source should be |
| Options : |
| 1. ✓ Equal to load resistance |
| 2. * less than the load resistance |
| greater than the load resistance |
| 4. * infinity |
| |

Question Number : 50 Question Id : 9683554900 Question Type : MCQ Option Shuffling : Yes Is

In Kirchhoff's first law $\Sigma i = 0$ at the junction is based on the conservation of

Options:

- 1. * Force
- 2. Energy
- 3. Charge
- 4. Momentum

Question Number: 51 Question Id: 9683554901 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Two identical 2A, 4 Ω Norton equivalent circuits are connected in parallel with the like polarity. Combined Norton equivalent circuit will be

Options:

1. - 4A, 2Ω

2. ***** 3A, 4 Ω

3. **≈** 2A, 4 Ω

4A, 6 Ω

4. 🕷

Question Number: 52 Question Id: 9683554902 Question Type: MCQ Option Shuffling: Yes Is

In Norton's equivalent circuit, there is

Options:

Constant current source in parallel to resistance

2 . Constant voltage source with a resistance

3. Constant current source with high resistance in series

Constant current sources and Voltage source

Question Number: 53 Question Id: 9683554903 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The input impedance of CRO is

Options:

Zero

2. ** Around 100Ω

Around 1 KΩ

4. Around 1 MΩ

Question Number : 54 Question Id : 9683554904 Question Type : MCQ Option Shuffling : Yes Is

The purpose of synchronizing control in CRO is to

Options:

Focus the spot on the screen

2. Look the display of the signal

3. * Adjust the amplitude of the display

4. * Control the intensity of the spot

Question Number: 55 Question Id: 9683554905 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

In an inductor filter current

Options:

1. Flows during whole of the Input Potential

2. * Flows in short pulses

3. * Does not flow during any part of the input potential

∆
 ■ Depends on value of current

Question Number: 56 Question Id: 9683554906 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

An AC circuit consists of a resistor and a capacitor, to Increase the phase angle above 45⁰

The following condition should be met.

Options:

Question Number: 57 Question Id: 9683554907 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

When the Frequency is decreases, the impedance of a Parallel RL Circuit?

Options:

Increases

Remains Constants

Doesn't depends on Frequency

Question Number: 58 Question Id: 9683554908 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 Depletion region in junction diode contains **Options:** 1. Free holes 2. * Free electrons 1 Immobile charge carriers Mobile charge carriers Question Number: 59 Question Id: 9683554909 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 The diode which permits remote tuning is **Options:** Zener diode 2. Varactor diode Power diode 4. * Tunnel diode

Question Number: 60 Question Id: 9683554910 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 The Capacitance of a reverse biased PN Junction **Options:** 1 * Increases as reverse bias increases Decrease as reverse bias Decrease Increase as reverse bias Decrease Doesn't change Question Number: 61 Question Id: 9683554911 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 Negative Resistant Characteristics exist for **Options:** Zener diode Z. Tunnel diode 3. * Junction diode Vactor diode

Question Number : 62 Question Id : 9683554912 Question Type : MCQ Option Shuffling : Yes Is

| Question Mandatory : No |
|--|
| Correct Marks : 1 Wrong Marks : 0 |
| If β =100 is the current gain of the transistor. Then α is |
| Options : 1. ** 1.01 |
| 2. * 10 |
| 0.99 3. ✓ |
| 1000 |
| Question Number : 63 Question Id : 9683554913 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| Which of the following is known as universal bias? |
| Options: |
| 1. * Fixed bias |
| 2. ✓ Self bias |
| Forward bias 3. ** |
| 4. * Reverse bias |

Question Number : 64 Question Id : 9683554914 Question Type : MCQ Option Shuffling : Yes Is

The unit of h- parameter hoe is

Options:

1. mho

ohm 2. *

No Unit

4. * VA

Question Number: 65 Question Id: 9683554915 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

In a transistor the variations in operating point is due to

Options:

I_{CO}

V_{BE}

3. ***** β

α 4 •

| Question Mandatory : No | |
|---|--|
| Correct Marks : 1 Wrong Marks : 0 | |
| The input impedance of a JFET is | that of an ordinary transistor. |
| Options : | |
| 1. * Equal to | |
| 2. Less than | |
| 3. ✓ More than | |
| Zero 4. * | |
| | |
| | |
| | : 9683554917 Question Type : MCQ Option Shuffling : Yes Is |
| Question Mandatory : No | : 9683554917 Question Type : MCQ Option Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 | |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 JFET is a | : 9683554917 Question Type : MCQ Option Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 JFET is a Options : Binolar | |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 JFET is a | |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 JFET is a Options : Binolar | |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 JFET is a Options : Bipolar 1. ** | |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 JFET is a Options: Bipolar 1. ** Unipolar Multipolar | |

| Question Number : 68 Question Id : | 9683554918 Question Type : MCQ Option Shuffling : Yes Is |
|--|--|
| Correct Marks : 1 Wrong Marks : 0 | |
| FET is a | _Control device |
| Options : | |
| 1. * Current | |
| 2. Voltage | |
| Power 3. * | |
| 4. Current & Voltage | |
| Question Number : 69 Question Id : Question Mandatory : No | 9683554919 Question Type : MCQ Option Shuffling : Yes Is |
| Correct Marks : 1 Wrong Marks : 0 | |
| In UJT, The resistivity of | Terminal is high |
| Options : | |
| 1. ✓ Base | |
| Emitter 2. * | |
| Collector 3. ** | |
| Gate 4. * | |

| Question Number : 70 Question Id : 9683554920 Question Type : MCQ Option Question Mandatory : No | Shuffling : Yes Is |
|---|--------------------|
| Correct Marks : 1 Wrong Marks : 0 UJT is generally used for | |
| Options : 1. ** Square wave generation | |
| 2. ✓ Triangle wave generation | |
| 3. Sine wave generation | |
| Saw tooth wave generation 4. ** | |
| | |
| Question Number : 71 Question Id : 9683554921 Question Type : MCQ Option Question Mandatory : No | Shuffling : Yes Is |
| | Shuffling : Yes Is |
| Question Mandatory : No | Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 | Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 An SCR behaves as aswitch | Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 An SCR behaves as aswitch Options : | Shuffling : Yes Is |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 An SCR behaves as aswitch Options : 1. Uni-directional | Shuffling : Yes Is |

Question Number: 72 Question Id: 9683554922 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

An SCR turn off from conducting state to blocking state on

Options:

Reducing anode current below holding Current

2. * Reverse gate Voltage

Reducing gate Current

Applying AC to the gate terminal

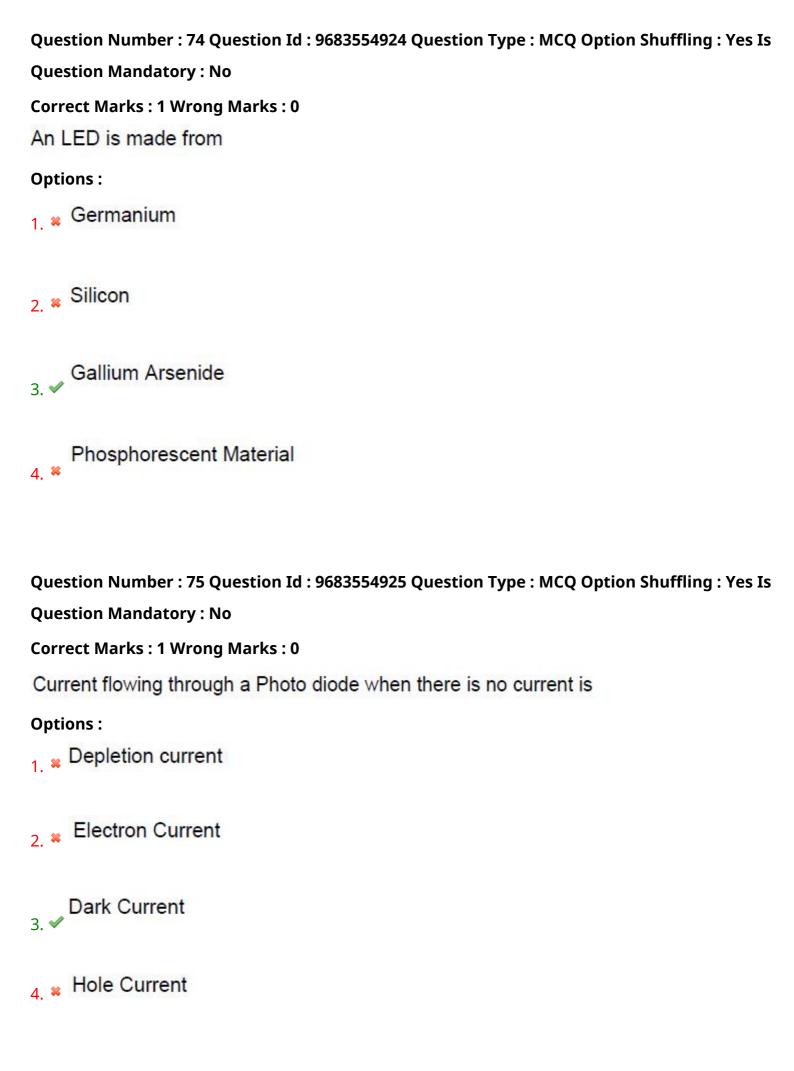
 ${\bf Question\ Number: 73\ Question\ Id: 9683554923\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

What is the band gap of semiconductor used in solar cell?

Options:



| Question Number : 76 Question Id : 9683554926 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
|---|
| Correct Marks : 1 Wrong Marks : 0 |
| Light dependent resistor is atype of device. |
| Options: 1. * Photo Voltaic |
| 2. * Photo Emissive |
| 3. * Photo Active |
| 4. ✓ Photo Resistive |
| Question Number : 77 Question Id : 9683554927 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| A Zener diode has break down voltage |
| Options : Undefined 1. ** |
| 2. Sharp |
| 3. * Zero |
| |

| Question Number : 78 Question Id : 9683554928 Question Type : MCQ Option Shuffling : Yes Is |
|--|
| Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| The output voltage of a step down type Switching Voltage Regulator depends on |
| Options: |
| 1. * Input Voltage |
| |
| 2. Duty Cycle |
| |
| 3. ** Transfer on time |
| |
| Independent of Input Voltage |
| |
| |
| |
| Question Number : 79 Question Id : 9683554929 Question Type : MCQ Option Shuffling : Yes Is |
| Question Number : 79 Question Id : 9683554929 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| |
| Question Mandatory : No |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 In An inverting type switching regulator, Output voltage is input voltage |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 In An inverting type switching regulator, Output voltage is input voltage Options : |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In An inverting type switching regulator, Output voltage is input voltage Options: 1. ** Lesser than |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 In An inverting type switching regulator, Output voltage is input voltage Options : |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In An inverting type switching regulator, Output voltage is input voltage Options: 1. ** Lesser than |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In An inverting type switching regulator, Output voltage is input voltage Options: 1. * Lesser than 2. * Greater than Opposite to |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In An inverting type switching regulator, Output voltage is input voltage Options: 1. * Lesser than 2. * Greater than |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In An inverting type switching regulator, Output voltage is input voltage Options: 1. ** Lesser than 2. ** Greater than Opposite to |

| Question Number : 80 Question Id : 9683554930 Question Type : MCQ Option Shuffling : Yes Is |
|---|
| Question Mandatory : No |
| Correct Marks : 1 Wrong Marks : 0 |
| Which Stage of DC Power supply uses a Zener Diode as the main component? |
| Options: 1. ** Rectifier |
| 2. * Voltage Divider |
| 3. ✓ Regulator |
| Filter 4. * |
| |
| Question Number : 81 Question Id : 9683554931 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| |
| Question Mandatory : No |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 In a 15V Zener diode, the break down will occur due to |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 In a 15V Zener diode, the break down will occur due to Options : |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 In a 15V Zener diode, the break down will occur due to Options: 1. Avalanche Mechanism |

| Question Number : 82 Question Id : 9683554932 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
|---|
| Correct Marks : 1 Wrong Marks : 0 |
| The gain of a cascaded amplifier is equal to the |
| Options: 1. Product of Individual Gains |
| Some of Individual gains 2. ** |
| Ratio of Gains |
| 4. Difference of Individual gains |
| |
| Question Number: 83 Question Id: 9683554933 Question Type: MCQ Option Shuffling: Yes Is |
| Question Number : 83 Question Id : 9683554933 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| |
| Question Mandatory : No |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 The bandwidth of a single stage amplifier is that of the multistage |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 The bandwidth of a single stage amplifier is that of the multistage amplifier. |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 The bandwidth of a single stage amplifier is that of the multistage amplifier. Options : |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 The bandwidth of a single stage amplifier is that of the multistage amplifier. Options: 1. More Than |

| Question Number: 84 Question Id: 9683554934 Question Type: MCQ Option Shuffling: Yes Is Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 Purpose of RC or Transformer Coupling is to Options: |
|---|
| Block AC Separate Bias of One stage from another |
| Increase thermals stability |
| Block DC |
| |
| |
| Question Number : 85 Question Id : 9683554935 Question Type : MCQ Option Shuffling : Yes Is |
| Question Number : 85 Question Id : 9683554935 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No |
| |
| Question Mandatory : No |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 The gain of an amplifier due to feedback is known as gain |
| Question Mandatory : No Correct Marks : 1 Wrong Marks : 0 The gain of an amplifier due to feedback is known as gain Options : |
| Question Mandatory: No Correct Marks: 1 Wrong Marks: 0 The gain of an amplifier due to feedback is known as gain Options: Resonant |

Question Number: 86 Question Id: 9683554936 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 The value of negative feedback fraction is always **Options:** Less than one More than one 3. * Equal to one 4. Zero Question Number: 87 Question Id: 9683554937 Question Type: MCQ Option Shuffling: Yes Is **Question Mandatory: No** Correct Marks: 1 Wrong Marks: 0 If a feedback fraction of an amplifier is 0.01, than voltage gain with negative feedback is approximately **Options:** 1. * 500 2. 🗸 100

3. * 1000

4. * 5000

Question Number: 88 Question Id: 9683554938 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The input stage of on Op-amp is usually a

Options:

1. Differentially Amplifier

Class B Push pull Amplifier

3. CE Amplifier

Swamped Amplifier

Question Number: 89 Question Id: 9683554939 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A certain Non-Inventing Amplifier has R_i of $1K\Omega$ and R_F of $100~K\Omega$ The closed loop gain is

Options:

1, 00,000

2. * 1000

3. **101**

4. * 100

Question Number: 90 Question Id: 9683554940 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

If AD =3500 and AC=0.35 The CMRR is

Options:

1225

2. * 100

3. * 80

4. 🗸 10

Question Number: 91 Question Id: 9683554941 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

When a differential amplifier is operated in single-ended mode?

Options:

1 * The output is grounded

2. One input is grounded and signal is applied to other

Both inputs are connected

4. * Output is not inverted

Question Number: 92 Question Id: 9683554942 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

A Summing Amplifier can have

Options:

Only one input

2. * Three Inputs

Any number of Inputs

4. * Two Inputs

 ${\bf Question\ Number: 93\ Question\ Id: 9683554943\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory : No

Correct Marks: 1 Wrong Marks: 0

In Wein-bridge oscillators the feedback used is

Options:

1. Positive Feedback

2. Negative Feedback

3. * LC Tank Circuit

4. * RL Circuit

Question Number: 94 Question Id: 9683554944 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The Lower and Upper thresholds voltages of IC 555 are

Options:

 ${\bf Question\ Number: 95\ Question\ Id: 9683554945\ Question\ Type: MCQ\ Option\ Shuffling: Yes\ Is}$

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

The output voltage of IC 7815 is

Options:

3. 🗱

Question Number: 96 Question Id: 9683554946 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

An Astable multivibrator is also known as

Options:

1. Schmitt Trigger

2. Free running multivibrator

Regenerator 3. *

4. * Integrator

Question Number: 97 Question Id: 9683554947 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Modulation is done at

Options:

1. Transmitter

2. Receiver

Modem 3. *

4. In the channel

Question Number: 98 Question Id: 9683554948 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

Super heterodyne principle refers to

Options:

1. * Using a large number of amplifier stages

2. Using a Push-Pull Circuit

3. Obtaining lower fixed intermediaries

4. * Using a Regulated Circuit

Question Number: 99 Question Id: 9683554949 Question Type: MCQ Option Shuffling: Yes Is

Question Mandatory: No

Correct Marks: 1 Wrong Marks: 0

In a Radio receiver, noise is generally developed at

Options:

IF Stage

2. * Receiving Stage

Audio Stage

RF Stage

Question Number: 100 Question Id: 9683554950 Question Type: MCQ Option Shuffling: Yes

Is Question Mandatory : No

Correct Marks: 1 Wrong Marks: 0

In AM Wave the majority of the power is in

Options:

1. * Lower side bands

2. Upper side bands

Carrier 3. ✔

Audio frequency