

# 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.

<b>Question Paper Name :</b>	MScElectronics 12th Aug 2022 Shift 1
<b>Subject Name :</b>	M.Sc. Electronics
<b>Creation Date :</b>	2022-08-12 12:33:17
<b>Duration :</b>	90
<b>Total Marks :</b>	100
<b>Display Marks:</b>	No
<b>Calculator :</b>	None
<b>Magnifying Glass Required? :</b>	No
<b>Ruler Required? :</b>	No
<b>Eraser Required? :</b>	No
<b>Scratch Pad Required? :</b>	No
<b>Rough Sketch/Notepad Required? :</b>	No
<b>Protractor Required? :</b>	No
<b>Show Watermark on Console? :</b>	Yes
<b>Highlighter :</b>	No
<b>Auto Save on Console?</b>	Yes
<b>Change Font Color :</b>	No
<b>Change Background Color :</b>	No
<b>Change Theme :</b>	No
<b>Help Button :</b>	No
<b>Show Reports :</b>	No
<b>Show Progress Bar :</b>	No

## M.Sc. Electronics

<b>Group Number :</b>	1
<b>Group Id :</b>	90320132
<b>Group Maximum Duration :</b>	0
<b>Group Minimum Duration :</b>	90
<b>Show Attended Group? :</b>	No
<b>Edit Attended Group? :</b>	No
<b>Break time :</b>	0
<b>Group Marks :</b>	100
<b>Is this Group for Examiner? :</b>	No
<b>Examiner permission :</b>	Cant View
<b>Show Progress Bar? :</b>	No

## PART A

<b>Section Id :</b>	90320154
<b>Section Number :</b>	1
<b>Section type :</b>	Online
<b>Mandatory or Optional :</b>	Mandatory
<b>Number of Questions :</b>	100
<b>Number of Questions to be attempted :</b>	100
<b>Section Marks :</b>	100
<b>Enable Mark as Answered Mark for Review and Clear Response :</b>	Yes
<b>Maximum Instruction Time :</b>	0
<b>Sub-Section Number :</b>	1
<b>Sub-Section Id :</b>	90320160
<b>Question Shuffling Allowed :</b>	Yes

Question Number : 1 Question Id : 9032013704 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

RAM Memory is also known as

Options :

1. ✓ RWM

2. ✗ MBR

3. ✗ MAR

4. ✗ ROM

Question Number : 2 Question Id : 9032013705 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How can parallel data be taken out of a shift register simultaneously?

Options :

1. ✗ Use the Q output of the first FF

2. ✗ Use the Q output of the last FF

3. ✗ Tie all of the Q outputs together

4. ✓ Use the Q output of each FF

Question Number : 3 Question Id : 9032013706 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A Multiplexer

Options :

1. ✘ It is a type of decoder which decodes several inputs and gives many outputs

2. ✓ is a device which converts many signals into one

3. ✘ It takes one input and results into many output

4. ✘ It is a type of encoder which decodes several inputs and gives one output

Question Number : 4 Question Id : 9032013707 Question Type : MCQ Option Shuffling : Yes Is  
Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum  
Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Most demultiplexers facilitate which type of conversion?

Options :

1. ✘ Decimal-to-hexadecimal

2. ✓ Single input, multiple outputs

3. ✘ AC to DC

4. ✘ Odd parity to even parity

**Question Number : 5 Question Id : 9032013708 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output from a D flip-flop if  $D = 1$  and the clock is low?

**Options :**

1. ✔ No change

2. ✘ Toggle between 0 and 1

3. ✘ 0

4. ✘ 1

**Question Number : 6 Question Id : 9032013709 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of these flip – flops cannot be used to construct a serial shift register?

**Options :**

1. ✘ D – flip flop

2. ✘ SR flip – flop

3. ✔ T flip – flop

4. ✘ JK flip – flop

**Question Number : 7 Question Id : 9032013710 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which number system has a base of 16

**Options :**

1. ✔ Hexadecimal

2. ✘ Octal

3. ✘ Binary

4. ✘ Decimal

**Question Number : 8 Question Id : 9032013711 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of these sets of logic gates are known as universal gates?

**Options :**

1. ✘ XOR, NAND, OR
2. ✘ OR, NOT, XOR
3. ✘ NOR, NAND, XNOR
4. ✔ NOR, NAND

**Question Number : 9 Question Id : 9032013712 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In the toggle mode, a JK flip-flop has

**Options :**

1. ✘  $J = 0, K = 1$
2. ✔  $J = 1, K = 1$
3. ✘  $J = 0, K = 0$
4. ✘  $J = 1, K = 0$

**Question Number : 10 Question Id : 9032013713 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

1's complement of 1011001 is

**Options :**

1. ✘ 0100111
2. ✘ 0101100
3. ✔ 0100110
4. ✘ 00110110

**Question Number : 11 Question Id : 9032013714 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

A Digital circuit that can store only one bit is a

**Options :**

1. ✘ Register
2. ✘ NOR gate
3. ✔ Flip-flop
4. ✘ XOR gate

**Question Number : 12 Question Id : 9032013715 Question Type : MCQ Option Shuffling : Yes Is**



Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

DeMorgan's Law states that

Options :

1. ✘  $(A+B)' = A'*B$

2. ✔  $(AB)' = A' + B'$

3. ✘  $(AB)' = A' + B$

4. ✘  $(AB)' = A + B$

Question Number : 13 Question Id : 9032013716 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In DTL, the logic gating function is performed by

Options :

1. ✘ Inductor

2. ✔ Diode

3. ✘ Transistor

4. ✘ Transformer

Question Number : 14 Question Id : 9032013717 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of inputs in a half adder

Options :

1. ✘ 8

2. ✔ 2

3. ✘ 11

4. ✘ 16

Question Number : 15 Question Id : 9032013718 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A Register can be defined as

Options :

1. ✘ The group of transistors for storing n- a bit of information

2. ✘ The group of transistors for storing two bits of information

3. ✘ The group of flip-flops for storing 2 bit of information

4. ✔

The group of flip-flops for storing binary information.

Question Number : 16 Question Id : 9032013719 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The NOR gate is OR gate followed by

Options :

1. ✘ AND gate
2. ✘ NAND gate
3. ✔ NOT gate
4. ✘ X-OR gate

Question Number : 17 Question Id : 9032013720 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Analog to Digital conversion includes

Options :

1. ✘ Sampling
2. ✘ Quantization

3. ✓ Sampling & Quantization

4. ✘ Decoding

**Question Number : 18 Question Id : 9032013721 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Disadvantages of digital communication are

**Options :**

1. ✘ Needs less bandwidth

2. ✘ Is more complex

3. ✓ Needs more bandwidth & Is more complex

4. ✘ Requires large amount of power

**Question Number : 19 Question Id : 9032013722 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The type of digital modulation, widely used for digital data transmission is

**Options :**

1. ✘ Pulse amplitude modulation

2. ✘ Pulse width modulation
3. ✘ Pulse position modulation
4. ✔ Pulse code modulation

**Question Number : 20 Question Id : 9032013723 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following pulse modulation systems is Analog

**Options :**

1. ✘ PCM
2. ✘ Differential PCM
3. ✔ PWM
4. ✘ Delta modulation

**Question Number : 21 Question Id : 9032013724 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The biggest disadvantages of PCM is

**Options :**

1. ✘ Its inability to handle Analog signals
2. ✘ The high error rate which its quantizing noise reduces
3. ✘ Its incompatibility with TDM
4. ✔ The large bandwidth that are required for it

**Question Number : 22 Question Id : 9032013725 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a form of pulse modulation?

**Options :**

1. ✘ Pulse amplitude modulation
2. ✘ Pulse width modulation
3. ✘ Pulse position modulation
4. ✔ Pulse frequency modulation

**Question Number : 23 Question Id : 9032013726 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In digital transmission, the modulation technique that requires minimum bandwidth is

**Options :**

1. ✓ Delta modulation
2. ✗ PCM
3. ✗ DPCM
4. ✗ PAM

**Question Number : 24 Question Id : 9032013727 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The polarities in NRZ format use

**Options :**

1. ✓ Complete pulse duration
2. ✗ Half duration
3. ✗ Both positive as well as negative value
4. ✗ Each pulse is used for twice the duration

**Question Number : 25 Question Id : 9032013728 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Parity check bit coding is used for

**Options :**

1. ✘ Error correction
2. ✔ Error detection
3. ✘ Error correction and detection
4. ✘ Error deletion

**Question Number : 26 Question Id : 9032013729 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

For hamming distance  $d_{\min}$  and number of errors  $D$ , the condition for receiving invalid codeword is

**Options :**

1. ✘  $D \leq d_{\min} + 1$
2. ✔  $D \leq d_{\min} - 1$
3. ✘  $D \leq 1 - d_{\min}$
4. ✘  $D \leq d_{\min}$



**Question Number : 27 Question Id : 9032013730 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The interference caused by the adjacent pulses in digital transmission is called

**Options :**

1. ✓ Inter symbol interference
2. ✗ White noise
3. ✗ Image frequency interference
4. ✗ Transit time noise

**Question Number : 28 Question Id : 9032013731 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The Digital modulation scheme in which the step size is not fixed is known as

**Options :**

1. ✗ Delta modulation
2. ✓ Adaptive delta modulation
3. ✗ DPCM

#### 4. ✘ PCM

**Question Number : 29 Question Id : 9032013732 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The advantage of using Manchester format of coding is

**Options :**

1. ✔ Power saving
2. ✘ Polarity sense at the receiver
3. ✘ Noise immunity
4. ✘ Low cost

**Question Number : 30 Question Id : 9032013733 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a characteristic of cellular telephone system?

**Options :**

1. ✘ Accommodate a large number of users
2. ✘ Large geographic area

3. ✘ Limited frequency spectrum

4. ✔ Large frequency spectrum

**Question Number : 31 Question Id : 9032013734 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Typical conversion speed of ADC is

**Options :**

1. ✘ Less than  $1\mu\text{s}$

2. ✔ Less than  $100\ \mu\text{s}$

3. ✘ Less than  $500\ \mu\text{s}$

4. ✘ Greater than  $1000\ \mu\text{s}$

**Question Number : 32 Question Id : 9032013735 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

A counter circuit is usually constructed of

**Options :**

1. ✘ A number of latches connected in cascade form

2. ✘ A number of NAND gates connected in cascade form
3. ✔ A number of flip-flops connected in cascade
4. ✘ A number of NOR gates connected in cascade form

**Question Number : 33 Question Id : 9032013736 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The output of an AND gate is Low

**Options :**

1. ✘ All the time
2. ✔ When any input is LOW
3. ✘ When any input is HIGH
4. ✘ When all inputs are HIGH

**Question Number : 34 Question Id : 9032013737 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The output of a NOT gate is HIGH when

**Options :**

1. ✓ The input is LOW
2. ✗ The input is HIGH
3. ✗ The input changes from LOW to HIGH
4. ✗ Voltage is removed from the gate

**Question Number : 35 Question Id : 9032013738 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The major advantage of the R/2R ladder Digital-to-Analog (DAC) converter, as compared to a binary-weighted Digital-to-Analog DAC converter is

**Options :**

1. ✓ It uses only two different resistor values
2. ✗ It has fewer parts for the same number of inputs
3. ✗ Its operation is much easier to analyse
4. ✗ The virtual ground is eliminated and the circuit is therefore easier to understand and troubleshoot

**Question Number : 36 Question Id : 9032013739 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

TTL is called transistor-transistor logic because both the logic gating function and the amplifying function are performed by

**Options :**

1. ✘ Resistors
2. ✔ Bipolar junction transistors
3. ✘ One transistor
4. ✘ Resistors and transistors respectively

**Question Number : 37 Question Id : 9032013740 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

There are \_\_\_\_\_ cells in a 4-variable K-map.

**Options :**

1. ✘ 12
2. ✔ 16
3. ✘ 18

4. ✘ 8

Question Number : 38 Question Id : 9032013741 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Product-of-Sums expressions can be implemented using

Options :

1. ✘ 2-level OR-AND logic circuits
2. ✘ 2-level NOR logic circuits
3. ✘ 2-level XOR logic circuits
4. ✔ Both 2-level OR-AND and NOR logic circuits

Question Number : 39 Question Id : 9032013742 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

BCD counter is also known as

Options :

1. ✘ Parallel counter
2. ✔ Decade counter

3. ✘ Synchronous counter

4. ✘ VLSI counter

**Question Number : 40 Question Id : 9032013743 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The noise be reduced in Amplitude Modulation signal by

**Options :**

1. ✘ Increasing amplitude

2. ✘ Increasing wavelength

3. ✘ Increasing bandwidth

4. ✔ Increasing frequency deviation

**Question Number : 41 Question Id : 9032013744 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The transistor configuration which provides highest output impedance is

**Options :**

1. ✔ Common-Base



2. ✘ Common-Emitter
3. ✘ Common-Collector
4. ✘ Common- Emitter and Common-Collector

**Question Number : 42 Question Id : 9032013745 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

n-p-n transistors are preferred over p-n-p transistors, because

**Options :**

1. ✘ High mobility of holes
2. ✘ Low mobility of holes
3. ✘ Equal mobility of holes and electrons
4. ✔ Higher mobility of electrons than mobility of holes in p-n-p transistors

**Question Number : 43 Question Id : 9032013746 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In BJT transistor, if  $\alpha = 0.97$  then the value of  $\beta$  is

**Options :**

1. ✘ 35

2. ✔ 32.33

3. ✘ 42

4. ✘ 1.0

**Question Number : 44 Question Id : 9032013747 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

A BJT is said to be operating in the saturation region, if

**Options :**

1. ✘ B-E junction reverse biased & B-C junction forward biased

2. ✘ B-E junction reverse biased & B-C junction reverse biased

3. ✔ B-E junction forward biased & B-C junction forward biased

4. ✘ B-E junction forward biased & B-C junction reverse biased

**Question Number : 45 Question Id : 9032013748 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which of the following statement is true about FET (Field-Effective Transistor)

**Options :**

1. ✘ It has high output impedance
2. ✔ It has high input impedance
3. ✘ It has low input impedance
4. ✘ It has low output impedance

**Question Number : 46 Question Id : 9032013749 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

For an n-channel FET, the direction of current flow is

**Options :**

1. ✘ Source to Drain
2. ✔ Drain to source
3. ✘ Gate to Source
4. ✘ Gate to Drain

Question Number : 47 Question Id : 9032013750 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

FET is a ----- controlled device

Options :

1. ✓ Voltage
2. ✗ Current
3. ✗ Resistance
4. ✗ Inductance

Question Number : 48 Question Id : 9032013751 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The MOSFET combines the areas of \_\_\_\_\_ & \_\_\_\_\_

Options :

1. ✓ Field effect & MOS technology
2. ✗ Semiconductor & TTL
3. ✗ MOS technology & CMOS technology

#### 4. ✘ Semiconductor & MOS technology

Question Number : 49 Question Id : 9032013752 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In a forward bias condition of P-N junction

Options :

1. ✘ The potential barrier increases
2. ✘ The potential barrier remains unchanged
3. ✔ The potential barrier decreases
4. ✘ The potential barrier becomes zero

Question Number : 50 Question Id : 9032013753 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The reverse saturation current in diodes approximately doubles for every

Options :

1. ✘ 20<sup>0</sup>C rise of temperature
2. ✔ 10<sup>0</sup>C rise of temperature

3. ✘ 40<sup>0</sup>C rise of temperature

4. ✘ 1000<sup>0</sup>C rise of temperature

**Question Number : 51 Question Id : 9032013754 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Which diode is mostly used as Voltage regulator?

**Options :**

1. ✘ Tunnel diode

2. ✘ Varactor diode

3. ✘ Light emitting diode

4. ✔ Zener diode

**Question Number : 52 Question Id : 9032013755 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Varactor diode is generally used as

**Options :**

1. ✓ Variable capacitor

2. ✘ Variable inductor

3. ✘ Variable resistor

4. ✘ Variable impedance

Question Number : 53 Question Id : 9032013756 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The equation for the resonance frequency of a series LCR circuit is given by

Options :

1. ✘  $f_0 = 1 / 2 \pi \sqrt{RC}$

2. ✓  $f_0 = 1 / 2 \pi \sqrt{LC}$

3. ✘  $f_0 = 1 \pi / 2 \sqrt{RC}$

4. ✘  $f_0 = 1 / 2 \sqrt{LC}$

Question Number : 54 Question Id : 9032013757 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The quality factor in an LCR circuit is a

**Options :**

1. ✓ Measure of the efficiency of energy stored in an L or C when an AC is applied
2. ✘ Measure of the efficiency of energy stored in an R or C when an AC is applied
3. ✘ Measure of the efficiency of voltage stored in an L or C when an AC is applied
4. ✘ Measure of the efficiency of current stored in an L or C when an AC is applied

**Question Number : 55 Question Id : 9032013758 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In an LCR circuit, to have sharp bandwidth

**Options :**

1. ✘ R must be large and L must be large
2. ✘ R must be small and L must be small
3. ✓ R must be small and L must be large
4. ✘ R must be large and L must be small



**Question Number : 56 Question Id : 9032013759 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The transient response of a series RC circuit is at maximum equal to

**Options :**

1. ✓ 5 times of time constant
2. ✗ 15 times of time constant
3. ✗ 10 times of time constant
4. ✗ 12 times of time constant

**Question Number : 57 Question Id : 9032013760 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In RL circuit of high pass filter the circuit \_\_\_\_\_ low frequency and \_\_\_\_\_ high frequency.

**Options :**

1. ✓ Stop, Pass
2. ✗ Pass, Stop
3. ✗ Stop, Stop

4. ✘ Pass, Pass

Question Number : 58 Question Id : 9032013761 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

For a passive integrator RC Circuit

Options :

1. ✘ The input is connected to capacitance and output taken from resistor
2. ✘ The input is connected to resistor and output also taken from resistor
3. ✘ The input is connected to capacitor and output also taken from capacitor
4. ✔ The input is connected to resistor and output taken from capacitor

Question Number : 59 Question Id : 9032013762 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Cathode Ray Oscilloscope gives

Options :

1. ✘ Actual representation
2. ✔ Visual representation

3. ✘ Approximate representation

4. ✘ Incorrect representation

**Question Number : 60 Question Id : 9032013763 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In CRO electron beam is deflected in

**Options :**

1. ✘ 1 direction

2. ✘ 4 directions

3. ✘ 3 directions

4. ✔ 2 directions

**Question Number : 61 Question Id : 9032013764 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Typically, oscilloscope represents

**Options :**

1. ✘ Current and time
2. ✘ Resistance and time
3. ✔ Voltage and time
4. ✘ Power and time

**Question Number : 62 Question Id : 9032013765 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In any linear network, if a source of emf  $E$  located in one mesh produces current  $i$  in the second mesh, then the same emf acting in the second mesh would produce the same current  $I$  in the first mesh. This statement is

**Options :**

1. ✘ Superposition theorem
2. ✔ Reciprocity theorem
3. ✘ Thevenin's theorem
4. ✘ Norton's theorem

**Question Number : 63 Question Id : 9032013766 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**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
3. ✗ Greater than the load resistance
4. ✗ No relation between load and source resistances

**Question Number : 64 Question Id : 9032013767 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Application of Norton's theorem to a circuit yields

**Options :**

1. ✓ Equivalent current source and impedance in parallel
2. ✗ Equivalent impedance
3. ✗ Equivalent current source
4. ✗ Equivalent current source and impedance in series

Question Number : 65 Question Id : 9032013768 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Kirchhoff's Current Law is based on

Options :

1. ✘ The charge can be accumulated at the node
2. ✔ Charge cannot be accumulated at the node
3. ✘ Energy is stored at the node
4. ✘ Depending on the circuit charge can be accumulated at the circuit

Question Number : 66 Question Id : 9032013769 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The algebraic sum of voltages around any closed path in a network is equal to

Options :

1. ✘ 1
2. ✘ Infinity

3. ✓ Zero

4. ✘ Negative polarity

Question Number : 67 Question Id : 9032013770 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

All \_\_\_\_\_ are loops but \_\_\_\_\_ are not meshes

Options :

1. ✘ Loops, Meshes

2. ✓ Meshes, loops

3. ✘ Branches, loops

4. ✘ Nodes, Branches

Question Number : 68 Question Id : 9032013771 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

RMS stands for \_\_\_\_\_

Options :

1. ✓ Root Mean Square

2. ✘ Root Mean Sum

3. ✘ Root Maximum sum

4. ✘ Root Minimum Sum

Question Number : 69 Question Id : 9032013772 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In a sinusoidal wave, average current is always \_\_\_\_\_ RMS current.

Options :

1. ✘ Greater than

2. ✔ Less than

3. ✘ Equal to

4. ✘ Not related

Question Number : 70 Question Id : 9032013773 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The admittance is the reciprocal of

Options :



1. ✘ Voltage
2. ✘ Current
3. ✘ Frequency
4. ✔ Impedance

**Question Number : 71 Question Id : 9032013774 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The terminals of a unijunction transistor are

**Options :**

1. ✘ Collector, Base and Emitter
2. ✔ Emitter, Base 1 and Base 2
3. ✘ Gate, Drain and Source
4. ✘ Gate, Drain, Body and Source

**Question Number : 72 Question Id : 9032013775 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Unijunction transistors is widely used for

**Options :**

1. ✘ Amplifying a circuit
2. ✘ Circuit breaker
3. ✘ Splitting device
4. ✔ Triggering device for silicon control rectifier (SCR) and TRIAC

**Question Number : 73 Question Id : 9032013776 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The working regions of a unijunction transistor is

**Options :**

1. ✔ Negative Resistance region
2. ✘ Linear region
3. ✘ Saturation region
4. ✘ Cut-off region

Question Number : 74 Question Id : 9032013777 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

SCR is a \_\_\_\_\_ type of device.

Options :

1. ✘ Resistor
2. ✔ Thyristor
3. ✘ Capacitor
4. ✘ Diode

Question Number : 75 Question Id : 9032013778 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

SCR has three terminals ,namely

Options :

1. ✘ Emitter, base and collector
2. ✘ Emitter, base 1 and base 2
3. ✔ Cathode, Anode and Gate
4. ✘

## Cathode, Anode and Grid

Question Number : 76 Question Id : 9032013779 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

An SCR is made of

Options :

1. ✓ Silicon
2. ✗ Germanium
3. ✗ Carbon
4. ✗ Gallium Arsenide

Question Number : 77 Question Id : 9032013780 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the intensity of light is increased the resistance of LDR

Options :

1. ✗ Increases
2. ✓ Decreases

3. ✘ Remains same

4. ✘ Becomes zero

**Question Number : 78 Question Id : 9032013781 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

When there is no incident light, the reverse current in a photodiode is essentially non-existent and is referred to as

**Options :**

1. ✘ Zener current

2. ✘ Photocurrent

3. ✘ PIN current

4. ✔ Dark current

**Question Number : 79 Question Id : 9032013782 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The region where the electrons and holes diffused across the junction is called

**Options :**

1. ✘ Depletion Junction

2. ✓ Depletion region

3. ✘ Depletion space

4. ✘ Depletion boundary

**Question Number : 80 Question Id : 9032013783 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

A light emitting diode is a

**Options :**

1. ✓ Heavily doped diode

2. ✘ Lightly doped diode

3. ✘ Intrinsic semiconductor diode

4. ✘ Zener diode

**Question Number : 81 Question Id : 9032013784 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Ripple factor of half wave rectifier is

Options :

1. ✘ 1.414

2. ✔ 1.21

3. ✘ 1.3

4. ✘ 0.48

Question Number : 82 Question Id : 9032013785 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Efficiency of bridge full wave rectifier is

Options :

1. ✔ 81.2%

2. ✘ 50%

3. ✘ 40.6%

4. ✘ 45.3%

Question Number : 83 Question Id : 9032013786 Question Type : MCQ Option Shuffling : Yes Is

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In a choke L section filter

**Options :**

1. ✘ The inductor and capacitor are connected across the load
2. ✔ The inductor is connected in series and capacitor is connected across the load
3. ✘ The inductor is connected across and capacitor is connected in series to the load
4. ✘ The inductor and capacitor are connected in series

**Question Number : 84 Question Id : 9032013787 Question Type : MCQ Option Shuffling : Yes Is**

**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The average temperature coefficient of output voltage expressed in fixed voltage regulator as

**Options :**

1. ✔ millivolts/ $^{\circ}$ C
2. ✘ Volts
3. ✘ millivolts



4. ✘ °C/ millivolts

Question Number : 85 Question Id : 9032013788 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A feedback circuit usually employs \_\_\_\_\_ type of circuit

Options :

1. ✘ Inductive
2. ✘ Capacitive
3. ✘ Shunt
4. ✔ Resistive

Question Number : 86 Question Id : 9032013789 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The negative feedback is employed in

Options :

1. ✘ Oscillators
2. ✘ Filters

3. ✓ Amplifiers

4. ✘ Rectifiers

Question Number : 87 Question Id : 9032013790 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In an oscillator, for sustained oscillations, Barkhausen criterion is  $A\beta$  equal to  
( $A$ = voltage gain without feedback,  $\beta$ = feedback factor)

Options :

1. ✘ zero

2. ✘  $1/2$

3. ✘  $2/3$

4. ✓ 1

Question Number : 88 Question Id : 9032013791 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

How will be the output voltage obtained for an ideal op-amp?

Options :

1. ✓

Amplifies the difference between the two input voltages

2. ✘ Amplifies individual voltages input voltages

3. ✘ Amplifies products of two input voltage

4. ✘ Amplifies individual currents

**Question Number : 89 Question Id : 9032013792 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Op-amps used as high- and low-pass filter circuits employ which configuration?

**Options :**

1. ✘ Open loop

2. ✔ Inverting

3. ✘ Non-inverting

4. ✘ Comparator

**Question Number : 90 Question Id : 9032013793 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

An astable multivibrator is also known as a:

**Options :**

1. ✘ One-shot multivibrator
2. ✘ Bistable multivibrator
3. ✔ Free-running multivibrator
4. ✘ Monostable multivibrator

**Question Number : 91 Question Id : 9032013794 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

A certain noninverting amplifier has  $R_i$  of 1 K $\Omega$  and  $R_f$  of 100 K $\Omega$ . The closed-loop voltage gain is

**Options :**

1. ✘ 100,000
2. ✘ 1000
3. ✘ 100
4. ✔ 101

Question Number : 92 Question Id : 9032013795 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

CMRR stands for

Options :

1. ✓ Common Mode Rejection Ratio
2. ✗ Community model resistance ratio
3. ✗ Common Mode Resistance Ratio
4. ✗ Common multiple rejection ratio

Question Number : 93 Question Id : 9032013796 Question Type : MCQ Option Shuffling : Yes Is

Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Step input given to op-amp integrator yields

Options :

1. ✗ Sine wave
2. ✗ Sawtooth wave
3. ✓ Ramp wave
4. ✗

## Square wave

**Question Number : 94 Question Id : 9032013797 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

Slew rate is defined as the rate of change of

**Options :**

1. ✓ Output voltage with respect to time
2. ✗ Input voltage with respect to time
3. ✗ Both output input voltage with respect to time
4. ✗ Input voltage with respect to output voltage

**Question Number : 95 Question Id : 9032013798 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In Television Transmission

**Options :**

1. ✓ Amplitude modulation for picture and frequency modulation for sound are employed
2. ✗

Frequency modulation for picture and Amplitude modulation for sound are employed

3. ✘ Amplitude modulation for both picture and sound are employed
4. ✘ Frequency modulation for both picture and sound are employed

**Question Number : 96 Question Id : 9032013799 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The following stage is present in FM receiver but not in AM receiver

**Options :**

1. ✘ Demodulator
2. ✘ AM amplifier
3. ✘ Mixer
4. ✔ Amplitude Limiter

**Question Number : 97 Question Id : 9032013800 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In frequency modulation, the modulation index is given by

Options :

1. ✘ Modulation frequency/frequency deviation
2. ✔ Frequency deviation/modulation frequency
3. ✘ Frequency deviation X modulation frequency
4. ✘ Frequency deviation/bandwidth

Question Number : 98 Question Id : 9032013801 Question Type : MCQ Option Shuffling : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The main advantage of frequency modulation over amplitude modulation

Options :

1. ✔ Improved signal to noise ratio
2. ✘ Decrease in signal to noise ratio
3. ✘ Increase in bandwidth
4. ✘ Increase in amplification

Question Number : 99 Question Id : 9032013802 Question Type : MCQ Option Shuffling : Yes Is



**Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum**

**Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

The voltage gain over mid-frequency range in an RC coupled amplifier

**Options :**

1. ✘ Changes instantly with frequency
2. ✘ Is independent of coupling
3. ✔ Is constant
4. ✘ Is maximum

**Question Number : 100 Question Id : 9032013803 Question Type : MCQ Option Shuffling : Yes**

**Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A**

**Minimum Instruction Time : 0**

**Correct Marks : 1 Wrong Marks : 0**

In RC Coupling, the value of coupling capacitor is about

**Options :**

1. ✘ 100 pF
2. ✘ 0.1  $\mu$ f
3. ✘ 0.01  $\mu$ f
4. ✔ 10  $\mu$ f

