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.

Subject Name :	Technician B Electronic Mechanic
Duration :	90
Total Marks :	80
Display Marks:	Yes
Share Answer Key With Delivery Engine :	Yes
Actual Answer Key :	Yes
Calculator :	None
Magnifying Glass Required? :	No
Ruler Required? :	No
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?	No
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No

Show Progress Bar :	No

Technician B Electronic Mechanic

Group Number :	1
Group Id :	40255796
Group Maximum Duration :	0
Group Minimum Duration :	90
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	80
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Curriculum Based

Section Id :	40255796
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	80
Number of Questions to be attempted :	80
Section Marks :	80
Enable Mark as Answered Mark for Review and Clear Response :	Yes
Maximum Instruction Time :	0

Sub-Section Number : 1

Sub-Section Id : 40255796

Question Shuffling Allowed : Yes

Is Section Default? : null

Question Number : 1 Question Id : 4025577601 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following determines the capacitance of a capacitor?

A. Plate area, temperature and plate separation

B. Voltage rating, dielectric constant and temperature coefficient

C. Temperature coefficient, plate area and plate separation

D. Plate area, dielectric constant and plate separation

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 1 Question Id : 4025577601 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से कौन-सा संधारित्र की धारिता को निर्धारित करता है?

A. प्लेट क्षेत्र, तापमान तथा प्लेट पृथक्करण

B. वोल्टता निर्धार, परावैद्युत (डाइइलेक्ट्रिक) स्थिरांक तथा तापमान गुणांक

C. तापमान गुणांक, प्लेट क्षेत्र तथा प्लेट पृथक्करण

D. प्लेट क्षेत्र, परावैद्युत (डाइइलेक्ट्रिक) स्थिरांक तथा प्लेट पृथक्करण

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 2 Question Id : 4025577602 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A device whose characteristics are very close to that of an ideal voltage source is a __.

A. SCR

B. FET

C. MOSFET

D. Zener Diode

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 2 Question Id : 4025577602 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक ऐसा उपकरण, जिसके गुण एक आदर्श वोल्टता स्रोत से काफी मिलते जुलते है

A. SCR

B. FET

C. MOSFET

D. Zener Diode

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 3 Question Id : 4025577603 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In a transistor the collector region is made

A. Smaller than emitter region
B. Greater than emitter region
C. Smaller than base region
D. Equal to base region

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 3 Question Id : 4025577603 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

ट्रांजिस्टर में संग्राहक क्षेत्र (कलेक्टर रीजियन) को बनाया जाता है .....

A. एमिटर क्षेत्र से छोटा
B. एमिटर क्षेत्र से बड़ा
C. बेस क्षेत्र से छोटा
D. बेस क्षेत्र के समान

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 4 Question Id : 4025577604 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Cut-in voltage of silicon npn transistor is nearly

A. 0.7V

B. 0.1V

C. 1.2 V

D. 0.01V

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 4 Question Id : 4025577604 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

सिलिकॉन एनपीएन (npn) ट्रांजिस्टर में कट-इन वोल्टेज लगभग होता है

A. 0.7 V

B. 0.1 V

C. 1.2 V

D. 0.01 V

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 5 Question Id : 4025577605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In a transistor, if Ic = 100mA and I_E = 100.5mA, then value of β is?

A. 100

B. 50

C. 1

D. 200

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 5 Question Id : 4025577605 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक ट्रांजिस्टर में, यदि $I_C = 100mA$ तथा $I_E = 100.5mA$ है, तो β का मान है?

A. 100

B. 50

C. 1

D. 200

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 6 Question Id : 4025577606 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

IC 7912 is a _____ .

A. Two input Quad XNOR

B. Two input Quad XOR

C. Negative voltage regulator

D. Positive voltage regulator

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 6 Question Id : 4025577606 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

आईसी 7912 एक.....है

A. दो इनपुट चतुष्क एक्सएनओआर

B. दो इनपुट चतुष्क एक्सओआर

C. ऋणात्मक वोल्टेज रेग्युलेटर

D. धनात्मक वोल्टेज रेग्युलेटर

Options :

✖ A

✖ B

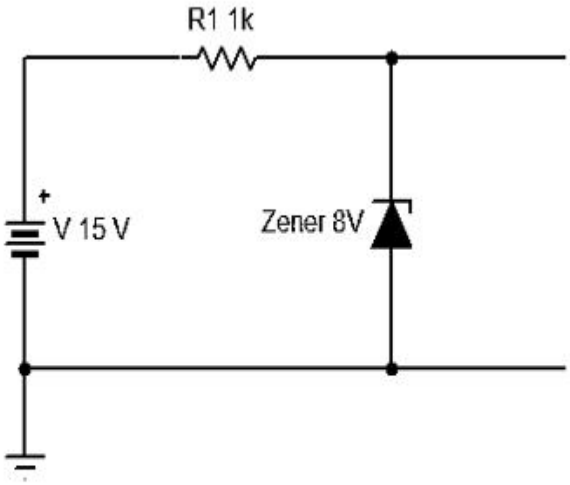
✔ C

✖ D

Question Number : 7 Question Id : 4025577607 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is the power dissipated by the resistor (R1) in the below circuit?



A. 49 mW

B. 7 mW

C. 120 mW

D. 15 mW

Options :

✔ A

✖ B

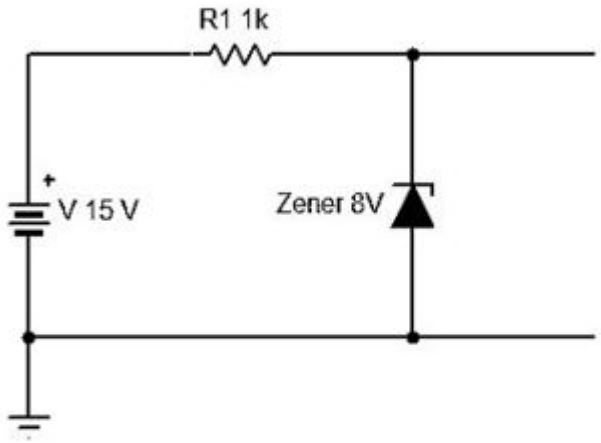
✖ C

✖ D

Question Number : 7 Question Id : 4025577607 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

नीचे दिए परिपथ में प्रतिरोधक (R1) द्वारा क्षयित शक्ति क्या है?



A. 49 mW

B. 7 mW

C. 120 mW

D. 15 mW

Options :

✔ A

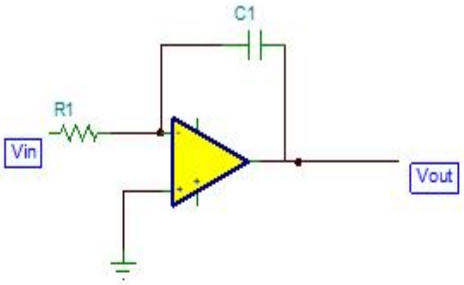
✖ B

✖ C

✖ D

Question Number : 8 Question Id : 4025577608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33



The type of amplifier circuit is called as

A. Integrator
B. Differentiator
C. Summer
D. Modulator

Options :

✔ A

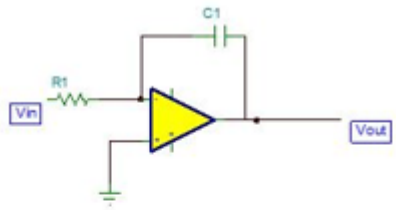
✖ B

✖ C

✖ D

Question Number : 8 Question Id : 4025577608 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33



इस किस्म का प्रवर्धक (ऐम्प्लिफायर) परिपथ कहलाता है

A. समाकलक

B. विभेदक

C. योजक

D. मॉड्यूलेटर

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 9 Question Id : 4025577609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

When an ohmmeter is used for testing a good diode, what is the indication in Ohmmeter?

A. High resistance when reverse biased and low resistance when forward biased

B. Low resistance when forward or reverse biased

C. High resistance when forward or reverse biased

D. High resistance when forward biased and low resistance when reverse biased

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 9 Question Id : 4025577609 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

जब एक ओम मीटर का प्रयोग अच्छे डायोड के परीक्षण के लिए किया जाता है, तो ओम मीटर में क्या संकेत होता है?

A. उत्क्रम बायस होने पर उच्च प्रतिरोध और अग्रेषण बायस होने पर निम्न प्रतिरोध

B. अग्रेषण या उत्क्रम बायस होने पर निम्न प्रतिरोध

C. अग्रेषण या उत्क्रम बायस होने पर उच्च प्रतिरोध

D. अग्रेषण बायस होने पर उच्च प्रतिरोध और उत्क्रम बायस होने पर निम्न प्रतिरोध

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 10 Question Id : 4025577610 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

An etchant used in PCB making is _____ .

A. Cupric Chloride

B. Ammonium Chloride

C. Carbon Tetrachloride

D. Magnesium Chloride

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 10 Question Id : 4025577610 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

पीसीबी तैयार करने में प्रयुक्त उत्क्रणक है-

A. क्यूप्रिक क्लोराइड

B. अमोनियम क्लोराइड

C. कार्बन टेट्राक्लोराइड

D. मैग्नीशियम क्लोराइड

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 11 Question Id : 4025577611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Feedback is generally used for

A. To produce oscillations

B. To change the characteristics of an amplifier

C. To develop DC voltage

D. Both A&B

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 11 Question Id : 4025577611 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

फीडबैक का उपयोग सामान्यत: क्यों किया जाता है

A. दोलन उत्पन्न करने के लिए

B. एम्पलीफायर के अभिलक्षणों में परिवर्तन करने के लिए

C. DC वोल्टेज उत्पन्न करने के लिए

D. A और B दोनों

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 12 Question Id : 4025577612 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A triangular waveshape is obtained

A. By integrating a square wave

B. By integrating a sin wave

C. By differentiating a sin wave

D. By differentiating a square wave

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 12 Question Id : 4025577612 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

त्रिकोणी तरंगरूप ..... द्वारा प्राप्त की जाती है

A. वर्ग (स्क्वायर) तरंग के एकीकरण
B. साइन तरंग के एकीकरण
C. साइन तरंग के विभेदन (डिफरेन्शियेटिंग)
D. वर्ग तरंग के विभेदन (डिफरेन्शियेटिंग)

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 13 Question Id : 4025577613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What would be approximate thermal voltage of a diode corresponding to an ambient temperature of 27°C?

A. 26mV

B. 35mV

C. 20mV

D. 24mV

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 13 Question Id : 4025577613 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

27°C के परिवेशी (ऐंबियेंट) तापमान के अनुसार डायोड की लगभग तापीय वोल्टता कितनी होगी ?

A. 26mV

B. 35mV

C. 20mV

D. 24mV

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 14 Question Id : 4025577614 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The device which selects one input out of many and connects it to the output based on binary combination of selection lines is called

A. Multiplexer

B. De-Multiplexer

C. Encoder

D. Decoder

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 14 Question Id : 4025577614 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

उपकरण जो बहुत में से एक इनपुट का चुनाव करता है तथा चयन रेखाओं के द्विआधारी संयोजन के आधार पर आउटपुट से कनेक्ट करता है___कहलाता है

A. मल्टीप्लेक्सर

B. डी-मल्टीप्लेक्सर

C. इनकोडर

D. डिकोडर

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 15 Question Id : 4025577615 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

One full adder can be made with

A. Two half adder and an OR gate

B. Two half adders and an AND gate

C. Two half adders

D. Two half adders and XOR gate

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 15 Question Id : 4025577615 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक पूर्ण योजक (वन फुल ऐड्डर) को निम्न से बनाया जा सकता है

A. दो अर्ध योजक और एक OR गेट

B. दो अर्ध योजकों और एक AND गेट

C. दो अर्ध योजकों

D. दो अर्ध योजकों और XOR गेट

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 16 Question Id : 4025577616 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is decimal equivalent of $(AB3)_{16}$?

A. 2739

B. 2533

C. 2740

D. 2738

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 16 Question Id : 4025577616 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

$(AB3)_{16}$ के समान दशमलव क्या है?

A. 2739
B. 2533
C. 2740
D. 2738

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 17 Question Id : 4025577617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In Binary Coded Decimal (BCD) systems the decimal number 81 is represented as

A. 10001001

B. 10001010

C. 10000001

D. 10000010

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 17 Question Id : 4025577617 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

द्वि-आधारित कूटित दशमलव (BCD) प्रणाली में दशमलव संख्या 81 को निम्न रुप में दर्शाया जाता है

A. 10001001

B. 10001010

C. 10000001

D. 10000010

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 18 Question Id : 4025577618 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Binary code of N bit can be used to store _____ distinct elements of coded information

A. $2^N - 1$
B. 2^{N-1}
C. 2^N
D. 2N

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 18 Question Id : 4025577618 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

N बिट के द्वि-आधारी कूट का उपयोग कूट सूचना के ----- विशिष्ट तत्वों को भंडारित करने के लिए किया जा सकता है

A. $2^N - 1$
B. 2^{N-1}
C. 2^N
D. 2N

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 19 Question Id : 4025577619 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is the value equal to One Tera Byte of memory?

A. 1024 KB

B. 1024 X 1024 KB

C. 1024 X 1024 X 1024 Bytes

D. 1024 X 1024 X 1024 KB

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 19 Question Id : 4025577619 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से कौन सा मान एक टेरा बाइट मैमोरी के बराबर है?

A. 1024 KB

B. 1024 X 1024 KB

C. 1024 X 1024 X1024 Bytes

D. 1024 X 1024 X1024 KB

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 20 Question Id : 4025577620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following device has the lowest propagation delay?

A. CMOS

B. ECL

C. Schottky TTL

D. Standard TTL

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 20 Question Id : 4025577620 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

इनमें से कौन सा उपकरण में निम्नतम अभिक्रिया विलंब होता है?

A. CMOS

B. ECL

C. Schottky TTL

D. Standard TTL

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 21 Question Id : 4025577621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

How many distinct states a D flipflop has?

A. 2
B. 3
C. 4
D. 5

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 21 Question Id : 4025577621 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

डी फ्लिपफ्लॉप की कितनी भिन्न-भिन्न अवस्थाएं होतीं हैं?

A. 2
B. 3
C. 4
D. 5

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 22 Question Id : 4025577622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Obtain a simplified Boolean function for the following expression

A'B +BC'+B'C'

A. A'B + C'

B. AB' + C'

C. A'B + C

D. A'B' + C

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 22 Question Id : 4025577622 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित व्यंजक के लिए एक सरलीकृत बूलियन फलन प्राप्त करें

A'B +BC'+B'C'

A. A'B + C'

B. AB' + C'

C. A'B + C

D. A'B' + C

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 23 Question Id : 4025577623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Obtain the simplified function for the following expression

D(A'+B) + B'(C+AD)

A. D' + BC

B. D+B'C

C. A'B'+D

D. BC'+A

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 23 Question Id : 4025577623 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित व्यंजक का सरलीकृत फलन ज्ञात करें

$$D(A'+B) + B'(C+AD)$$

A. D' + BC
B. D+B'C
C. A'B'+D
D. BC'+A

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 24 Question Id : 4025577624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

How many unused state a 4bit BCD counter has?

A. 5
B. 6
C. 4
D. 8

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 24 Question Id : 4025577624 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक 4बिट बीसीडी काउंटर के पास कितनी अप्रयुक्त अवस्था (स्टेट) है।

A. 5
B. 6
C. 4
D. 8

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 25 Question Id : 4025577625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A periodic square pulse signal with ON time of 0.2sec and OFF time of 0.8sec, what is the duty cycle of the signal?

A. 20%

B. 80%

C. 60%

D. 40%

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 25 Question Id : 4025577625 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

0.2 सेकेंड के ON टाइम तथा 0.8 सेकेंड के OFF टाइम वाले आवर्ती स्क्वेयर पल्स सिग्नल में सिग्नल का ड्यूटी चक्र (साइकिल) क्या होगा?

A. 20%

B. 80%

C. 60%

D. 40%

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 26 Question Id : 4025577626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In full wave rectifier filter circuit if capacitance increases the ripple voltage will

A. Decreases

B. Stay same

C. Increases

D. cannot be determined

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 26 Question Id : 4025577626 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

यदि पूर्ण तरंग दिष्टकारी फिल्टर परिपथ की धारिता बढ़ा दिया जाए तो उर्मिका वोल्टता ------

A. घटेगी

B. यथावत रहेगी

C. बढ़ जाएगी

D. आंकलन नहीं किया जा सकता

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 27 Question Id : 4025577627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is the value of ripple frequency in the full wave rectifier with respect to the input signal frequency?

A. Same as input frequency

B. 2 times the input frequency

C. 3 times the input frequency

D. 4 times the input frequency

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 27 Question Id : 4025577627 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

इनपुट संकेत आवृत्ति के संदर्भ में पूर्ण तरंग परिशोधक में ऊर्मिका आवृत्ति का मान क्या है?

A. इनपुट आवृत्ति के समान है

B. इनपुट आवृत्ति से दो गुणा है

C. इनपुट आवृत्ति से 3 गुणा है

D. इनपुट आवृत्ति से 4 गुणा है

Options :

✖ A

✔ B

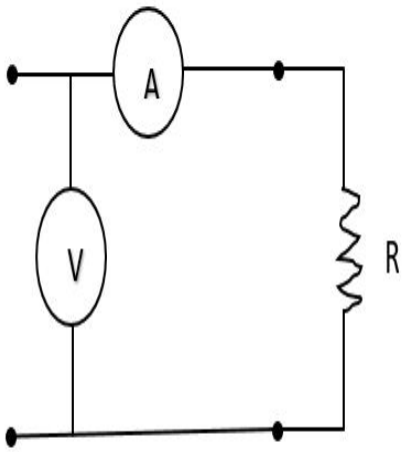
✖ C

✖ D

Question Number : 28 Question Id : 4025577628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The resistance of a coil is measured experimentally by the voltmeter-ammeter method. In the given figure, the resistance of voltmeter is 10kΩ and ammeter is 0.1Ω. What is the value of Resistance R, when voltmeter reads 5V and ammeter reading is 25A?



A. 1Ω

B. 10Ω

C. 1KΩ

D. 0.1Ω

Options :

✖ A

✖ B

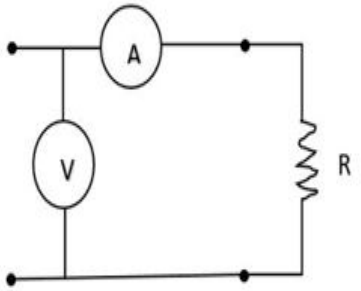
✖ C

✔ D

Question Number : 28 Question Id : 4025577628 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

कॉइल का प्रतिरोध वोल्टमीटर- ऐममीटर पद्धति से प्रयोगात्मक रूप में मापा जाता है। दिए गए चित्र में, वोल्टमीटर का प्रतिरोध 10kΩ है तथा ऐममीटर का 0.1 Ω है। जब वोल्टमीटर पर 5V दिखता है तथा ऐममीटर की रीडिंग 25A है प्रतिरोध आर का मान क्या है?



A. 1Ω

B. 10Ω

C. 10KΩ

D. 0.1Ω

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 29 Question Id : 4025577629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

If biasing is not done properly in the amplifier circuit, it results in

A. Decrease in base current
B. Unfaithful amplification
C. Excessive collector current
D. zero output

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 29 Question Id : 4025577629 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रवर्धक (एम्प्लिफायर) परिपथ में यदि बायसिंग ठीक से न किया गया हो तो ..... होता है।

A. आधार धारा (बेस करेंट) कम होती है
B. अविश्वसनीय प्रवर्धन
C. अत्यधिक संग्राहक (कलेक्टर) धारा
D. शून्य आउटपुट

Options :

✖ A

✔ B

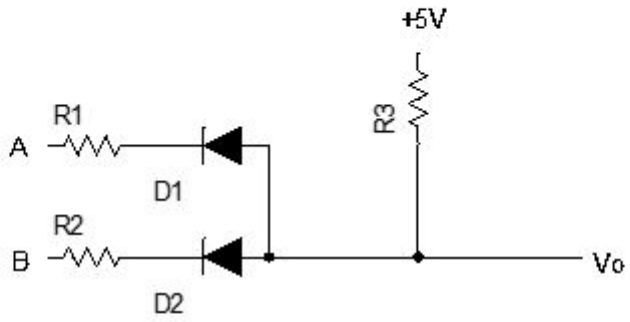
✖ C

✖ D

Question Number : 30 Question Id : 4025577630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What does the following circuit represent?



A. Positive logic AND gate
B. Positive logic OR gate
C. Negative logic AND gate
D. Negative logic OR gate

Options :

✔ A

✖ B

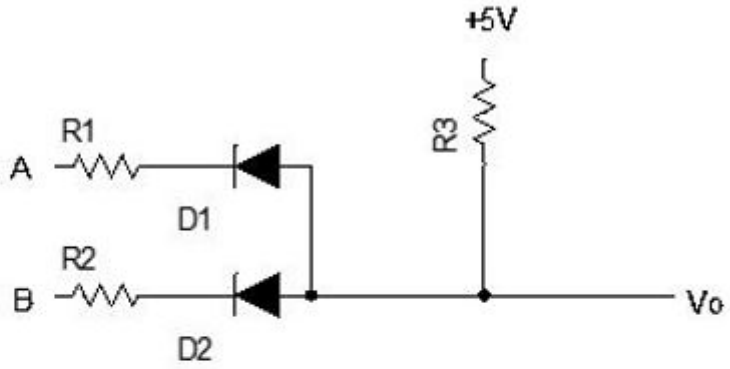
✖ C

✖ D

Question Number : 30 Question Id : 4025577630 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

नीचे दिया गया परिपथ क्या दर्शाता है?



A. धनात्मक लॉजिक AND गेट

B. धनात्मक लॉजिक OR गेट

C. ऋणात्मक लॉजिक AND गेट

D. ऋणात्मक लॉजिक OR गेट

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 31 Question Id : 4025577631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Transient current in the electrical circuit are associated with

A. Inductor
B. Capacitor
C. resistor
D. Both A and B

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 31 Question Id : 4025577631 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

विद्युत परिपथ में क्षणिक धारा ..... से संबंधित है।

A. प्रेरक

B. संधारित्र

C. प्रतिरोधक

D. A व B दोनों

Options :

✖ A

✖ B

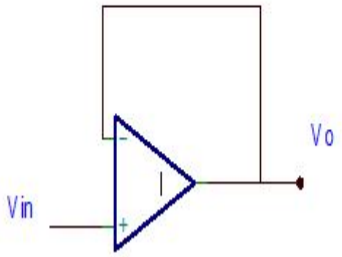
✖ C

✔ D

Question Number : 32 Question Id : 4025577632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

For the circuit shown below, considering the ideal OPAMP, the value of Vo/Vin=?



A. ∞

B. 1

C. >1

D. 0

Options :

✖ A

✔ B

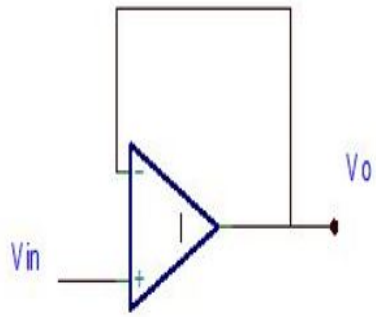
✖ C

✖ D

Question Number : 32 Question Id : 4025577632 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

नीचे दिए गए परिपथ में OPAMP को आदर्श मानते हुए Vo/Vin के मान की गणना कीजिए?



A. ∞

B. 1

C. >1

D. 0

Options :

✖ A

✔ B

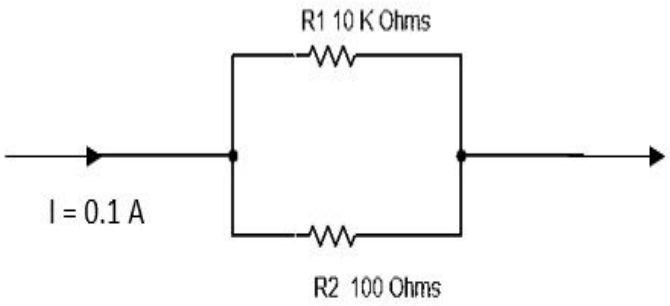
✖ C

✖ D

Question Number : 33 Question Id : 4025577633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Calculate voltage drop across resistors R1 and R2?



A. 8.8 V

B. 9.9 V

C. 11.2

D. 10.9

Options :

✖ A

✔ B

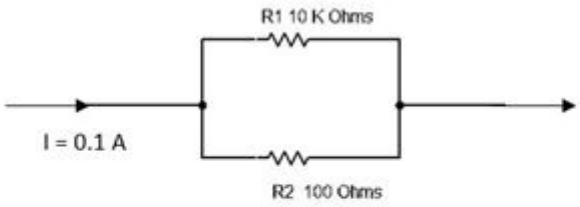
✖ C

✖ D

Question Number : 33 Question Id : 4025577633 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रतिरोधक R1 और R2 में वोल्टेज गिरावट(ड्राप) की गणना कीजिए?



A. 8.8 V
B. 9.9 V
C. 11.2
D. 10.9

Options :

✖ A

✔ B

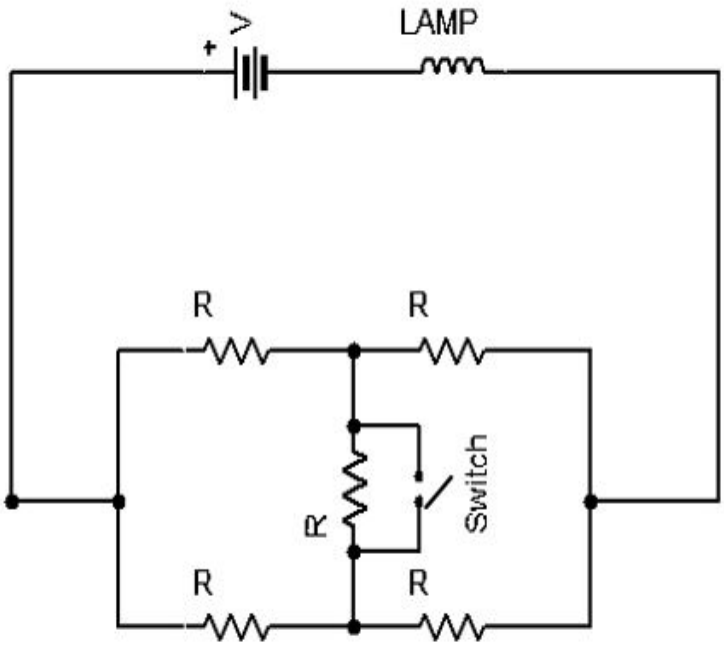
✖ C

✖ D

Question Number : 34 Question Id : 4025577634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The 'Switch' is initially open. What happens to the intensity of the LAMP when the 'Switch' is closed?



A. Increases

B. Remains the same

C. decreases

D. Answer depends on the value of R

Options :

✖ A

✔ B

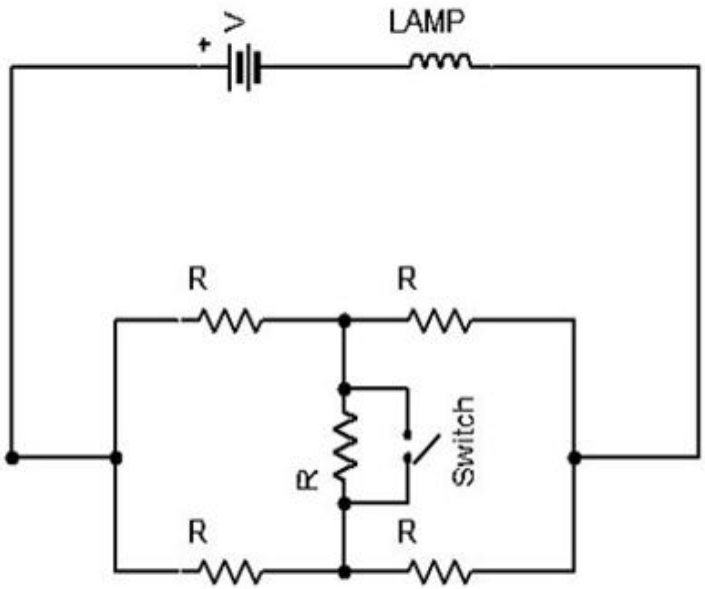
✖ C

✖ D

Question Number : 34 Question Id : 4025577634 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

'स्विच' पहले खुली हुई अवस्था में है। जब 'स्विच' को बंद किया जाता है तो लैंप की तीव्रता में क्या प्रभाव होता है?



A. बढ़ता है

B. वही रहता है

C. घटता है

D. R के मान पर उत्तर निर्भर है

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 35 Question Id : 4025577635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Class 'C' amplifier is an amplifier whose output current flows for ___ .

A. Entire input cycle

B. Less than one-half the entire input cycle

C. Twice the entire input cycle

D. Greater than one-half the entire input cycle

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 35 Question Id : 4025577635 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

वर्ग 'C' प्रवर्धक एक ऐसा प्रवर्धक है जिसकी बाह्य धारा.....के लिए निकलती होती है

A. संपूर्ण अंतर्गमन चक्र

B. संपूर्ण अंतर्गमन चक्र के आधे से कम

C. संपूर्ण अंतर्गमन चक्र के दुगना

D. संपूर्ण अंतर्गमन चक्र से अधिक

Options :

✖ A

✔ B

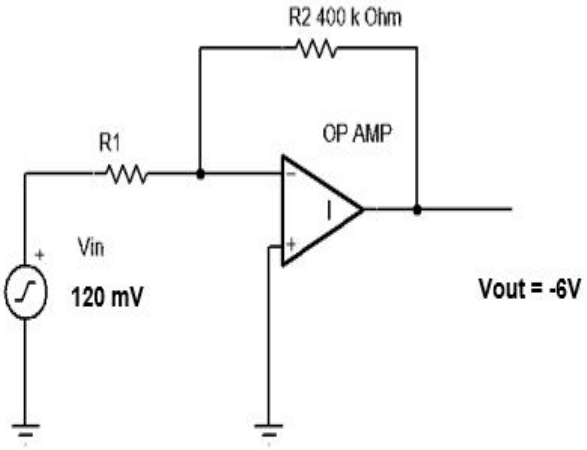
✖ C

✖ D

Question Number : 36 Question Id : 4025577636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What value of R1 required in the given circuit to produce the indicated output voltage V_{out}?



A. 8 kΩ

B. 16 kΩ

C. 4 kΩ

D. 12 kΩ

Options :

✔ A

✖ B

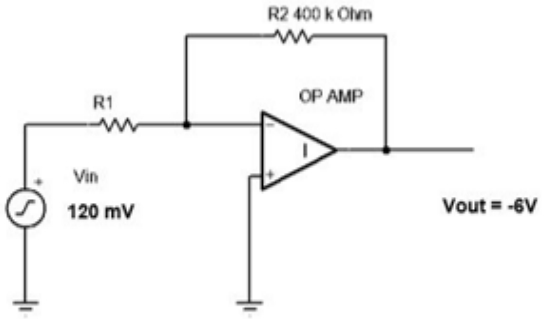
✖ C

✖ D

Question Number : 36 Question Id : 4025577636 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

दिए परिपथ में से सूचित आउटपुट वोल्टता V_{out} को उत्पन्न करने के लिए R1 का कितना मान अपेक्षित है?



A. 8 kΩ
B. 16 kΩ
C. 4 kΩ
D. 12 kΩ

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 37 Question Id : 4025577637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A Cell phone is basically a

A. Radio receiver
B. Radio transmitter
C. Radio transceiver
D. Telephone

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 37 Question Id : 4025577637 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

मूलत: सेल फोन एक ---- है

A. रेडियो रिसीवर
B. रेडियो ट्रांसमीटर
C. रेडियो ट्रांसरिसीवर
D. टेलीफोन

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 38 Question Id : 4025577638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The audible frequency range in communication is

A. 30KHz to 400KHz
B. 550KHz to 1600KHz
C. 20Hz to 20KHz
D. 452KHz to 455KHz

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 38 Question Id : 4025577638 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

संचार में श्रव्य आवृत्ति रेंज होता है

A. 30KHz से 400KHz
B. 550KHz से 1600KHz
C. 20Hz से 20KHz
D. 452KHz से 455KHz

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 39 Question Id : 4025577639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

4^{th} layer of OSI reference model of communication protocol is

A. Data link layer
B. Session layer
C. Network layer
D. Transport layer

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 39 Question Id : 4025577639 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

संचार प्रोटोकॉल के ओएसआई संदर्भ मॉडल की चौथी (4^{th}) लेयर है।

A डाटा लिंक लेयर

B सेस्सन लेयर

C नेटवर्क लेयर

D ट्रांस्पोर्ट लेयर

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 40 Question Id : 4025577640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In TV transmission, type of modulation used for picture signal is

A. Frequency

B. Phase

C. Amplitude

D. Binary

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 40 Question Id : 4025577640 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

TV प्रसारण में चित्र सिग्नल के लिए किस प्रकार के माडुलन का प्रयोग किया जाता है

A. आवृत्ति

B. फेज़

C. आयाम

D. द्विआधारी (बाइनरी)

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 41 Question Id : 4025577641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Calculate power gain of absolute power ratio 200.

Value of $\log_{10}2 = 0.3$

A. 46dB
B. 23dB
C. 11.5dB
D. 230dB

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 41 Question Id : 4025577641 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निरपेक्ष शक्ति अनुपात 200 की शक्ति लब्धि की गणना करें

दिया गया है $\log_{10}2=0.3$

A. 46dB
B. 23dB
C. 11.5dB
D. 230dB

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 42 Question Id : 4025577642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which among the following fiber optic cables have a core of size 480µm to 980µm and made up of polymethylmethacrylate?

A. Glass fiber optic cable
B. Plastic fiber optic cable
C. Plastic clad silica fiber optic cable
D. All of the above

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 42 Question Id : 4025577642 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न तंतु प्रकाशिकी केबलों में किसका कोर आकार 480µm से 980µm है और पॉलिमिथाइलमिथाक्रिलाइट से बना हुआ है?

A. ग्लास तंतु प्रकाशिकी केबिल

B. प्लैसटिक तंतु प्रकाशिकी केबिल

C. प्लैस्टिक क्लैड सिलिका तंतु प्रकाशिकी केबिल

D. उपर्युक्त सभी

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 43 Question Id : 4025577643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is the responsivity of a light detector?

A. The time required for the signal to go from 10 to 90 percent of maximum amplitude
B. The ratio of the diode output current to optical input power
C. The ratio of output current to output power
D. The ratio of output current to input current

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 43 Question Id : 4025577643 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रकाश संसूचक अनुक्रियात्मकता क्या है?

A. 10 से 90 प्रतिशक अधिकतम आयाम पर सिग्नल के लिए समय की आवश्यकता है
B. प्रकाश इनपुट पावर से डयोड आउटपुट धारा का अनुपात
C. आउटपुट पावर से आउटपुट धारा का अनुपात
D. इनपुट धारा से आउटपुट धारा का अनुपात

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 44 Question Id : 4025577644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In a super heterodyne receiver the intermediate carrier frequency (IF) is

A. 800KHz

B. 455KHz

C. 300KHz

D. 100KHz

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 44 Question Id : 4025577644 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक सुपर हेटरोडाइन अभिग्राही में मध्यवर्ती वाहक आवृत्ति (IF) है

A. 800KHz
B. 455KHz
C. 300KHz
D. 100KHz

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 45 Question Id : 4025577645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Space wave propagation of a signal happens above

A. 30MHz
B. 40MHz
C. 50MHz
D. 60MHz

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 45 Question Id : 4025577645 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

किसी सिग्नल का अंतरिक्ष तरंग संचरण ------ से अधिक पर होता है

A. 30MHz
B. 40MHz
C. 50MHz
D. 60MHz

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 46 Question Id : 4025577646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

CD-ROM drive utilizes which type of modulation?

A. Frequency Shift Keying
B. Quadrature amplitude modulation
C. Pulse code modulation
D. Eight to Fourteen Modulation

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 46 Question Id : 4025577646 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

CD-ROM ड्राइव में किस प्रकार के मॉड्युलन का प्रयोग किया जाता है?

A. फ्रिक्वेंसी शिफ्ट कुंजीयन
B. समकोणिक आयाम (क्वाडरेचर एम्प्लीट्यूड) मॉड्युलन
C. पल्स कोड मॉड्युलन
D. आठ से चौदह मॉड्युलन

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 47 Question Id : 4025577647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The units of Responsivity (R) of a Photo detector is

A. mW/cm^2

B. A/W

C. Nepers

D. A.W

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 47 Question Id : 4025577647 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक फोटो डिटेक्टर की अनुक्रियात्मक (R) इकाई है

A. mW/cm^2

B. A/W

C. नेपर्स

D. A.W

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 48 Question Id : 4025577648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is a linear application of OPAMP

A. Voltage follower

B. Inverting Amplifier

C. Non-inverting Amplifier

D. All of the above

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 48 Question Id : 4025577648 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से OPAMP का रैखिक अनुप्रयोग कौन-सा है?

A. वोल्टता फोलोवर
B. इनवर्टिंग प्रवर्धक (एम्प्लिफायर)
C. नॉन इनवर्टिंग प्रवर्धक (एम्प्लिफायर)
D. उपर्युक्त सभी

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 49 Question Id : 4025577649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A capacitance is formed by storing energy in the form of.

A. Electric field
B. Magnetic field
C. Electromagnetic field
D. Chemical energy

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 49 Question Id : 4025577649 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक संधारित्र .....रूप में ऊर्जा संग्रहण द्वारा तैयार किया जाता है।

A. विद्युत क्षेत्र

B. चुंबकीय क्षेत्र

C. विद्युतचुंबकीय क्षेत्र

D. रासायनिक ऊर्जा

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 50 Question Id : 4025577650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The output voltage of a typical thermocouple is

A. less than 100 mV
B. Greater than 1 V
C. Greater than 5V
D. Greater than 10 V

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 50 Question Id : 4025577650 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्ररूपी ऊष्मायुग्मक का आउटपुट वोल्टेज है

A. 100mV से कम
B. 1V से अधिक
C. 5V से अधिक
D. 10V से अधिक

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 51 Question Id : 4025577651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which battery technology has highest specific energy?

A. Super capacitor
B. Lead Acid
C. Nickel Cadmium
D. Lithium Ion

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 51 Question Id : 4025577651 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

किस प्रकार की बैटरी तकनीक में उच्चतम विशिष्ट ऊर्जा है?

A. सुपर संधारित्र

B. सीसा अम्ल

C. निकल कैडमियम

D. लिथियम आयन

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 52 Question Id : 4025577652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The voltage sensitivity of a multimeter is 10 mV, its internal resistance is 20 Ω. Then its current sensitivity is ___ .

A. 1 mA

B. 5 μA

C. 500 μA

D. 0.8 A

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 52 Question Id : 4025577652 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक बहुमापी की वोल्टेज संवेदकता 10 mV, उसका आंतरिक प्रतिरोध 20Ω है।

तो इसकी धारा संवेदकता है.....

A. 1 mA

B. 5 μA

C. 500 μA

D. 0.8 A

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 53 Question Id : 4025577653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is not a method of resistance measurement?

A. Voltmeter- Ammeter

B. Ohm-meter

C. Kelvins double bridge.

D. Maxwell's bridge

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 53 Question Id : 4025577653 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से किसके द्वारा प्रतिरोध नहीं मापा जाता है?

A. वोल्टमीटर – एमीटर

B. ओह्म-मीटर

C. केल्विन डबल ब्रिज

D. मैक्सवेल ब्रिज

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 54 Question Id : 4025577654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Signal Generator used in laboratories generally utilizes which of the following oscillator

A. Wein bridge

B. Hartley

C. Crystal

D. Phase shift

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 54 Question Id : 4025577654 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रयोगशालाओं में उपयोग किए जाने वाले सिग्नल जेनरेटर में आमतौर पर इनमें से किस दोलित्र का उपयोग किया जाता है

A. वेन ब्रिज

B. हार्टले

C. क्रिस्टल

D. फेज़ शिफ्ट

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 55 Question Id : 4025577655 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Piezoelectric effect in a crystal is

A. Change in resistance because of temperature

B. Change in current because of temperature

C. Voltage developed because of mechanical stress

D. Change in frequency because of mechanical stress.

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 55 Question Id : 4025577655 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक क्रिस्टल में पीज़ोइलेक्ट्रिक इफेक्ट क्या होता है?

A. तापमान के कारण प्रतिरोध में परिवर्तन

B. तापमान के कारण धारा में परिवर्तन

C. यांत्रिक प्रतिबल के कारण विकसित वोल्टता

D. यांत्रिक प्रतिबल के कारण आवृत्ति में परिवर्तन

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 56 Question Id : 4025577656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A power supply has a voltage regulation of 1%. If the no load voltage is 20V then what is the full load voltage?

A. 19.8V

B. 15.7 V

C. 18.6V

D. 20.2V

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 56 Question Id : 4025577656 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

पावर सप्लाई में 1% का वोल्टता नियमन है। यदि शून्य लोड वोल्टता 20V है, तो पूर्ण लोड वोल्टता कितनी है?

A. 19.8V

B. 15.7 V

C. 18.6V

D. 20.2V

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 57 Question Id : 4025577657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which type of strain gauge has better resolution?

A. Semiconductor strain gauge

B. Wire strain gauge

C. Wire and Semiconductor strain gauge

D. None of the above

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 57 Question Id : 4025577657 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

किस प्रकार के स्ट्रेन गेज का विभेदन ज्यादा अच्छा है?

A. अर्धचालक स्ट्रेन गेज

B. तार स्ट्रेन गेज

C. तार एवं अर्धचालक स्ट्रेन गेज

D. उपरोक्त में से कोई नहीं

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 58 Question Id : 4025577658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

CMRR of typical instrumentation amplifier is

A. 80 dB

B. 10 dB

C. 120dB

D. 6dB

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 58 Question Id : 4025577658 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

प्रतिरूपी यंत्र प्रवर्धक का सीएमआरआर ..... है।

A. 80 dB

B. 10 dB

C. 120 dB

D. 6dB

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 59 Question Id : 4025577659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

If power factor of a circuit is unity, its reactive power is

A. zero

B. equal to I^2R

C. a negative quantity

D. a large quantity

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 59 Question Id : 4025577659 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

अगर परिपथ की शक्ति गुणांक एकक है, इसकी प्रतिघाती शक्ति ..... है।

A. शून्य

B. I^2R के समान

C. एक ऋणात्मक मात्रा

D. एक बहुत बड़ी मात्रा

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 60 Question Id : 4025577660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following types of displays are called passive displays, classified under the method of conversion of electrical data to visible light?

A. Gas discharge plasma

B. CRTs

C. LEDs

D. LCDs

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 60 Question Id : 4025577660 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

विद्युत डाटा से दृश्य प्रकाश (विसिबल लाइट) के रूपांतरण विधि के अंतर्गत वर्गीकृत, निम्नलिखित में से किस प्रदर्श (डिसप्ले) को परक्रिय प्रदर्श (पासिव प्रदर्श) कहा जाता है?

A. गैस विसर्जन प्लाज़मा

B. CRTs

C. LEDs

D. LCDs

Options :

✖ A

✖ B

✖ C

✔ D

Question Number : 61 Question Id : 4025577661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following devices can be used for high voltage applications?

A. MOSFET

B. IGBT

C. BJT

D. JFET

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 61 Question Id : 4025577661 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

उच्च वोल्टता अनुप्रयोगों के लिए निम्नलिखित में से किस उपकरण का प्रयोग किया जा सकता है?

A. MOSFET

B. IGBT

C. BJT

D. JFET

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 62 Question Id : 4025577662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In normal operation of SCR, the gate is_____with respect to cathode.

A. Positive

B. Negative

C. At zero potential

D. None of the above

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 62 Question Id : 4025577662 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

SCR के सामान्य प्रचालन में, कैथोड के संबंध में ..... गेट होता है।

A. धनात्मक

B. ऋणात्मक

C. शून्य विभव पर

D. उपरोक्त में से कोई नहीं

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 63 Question Id : 4025577663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The ripple output frequency of bridge rectifier in 50 Hz supply is ___Hz.

A. 50

B. 25

C. 100

D. 200

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 63 Question Id : 4025577663 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

50 हर्टज की आपूर्ति पर ब्रिज दिष्टकारी की निर्गत ऊर्मिका आवृत्ति ----- हर्टज होगी।

A. 50

B. 25

C. 100

D. 200

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 64 Question Id : 4025577664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A full wave rectifier uses 2 diodes. The internal resistance of each diode is 20 Ω. The transformer RMS secondary voltage from center tap to each end of the secondary is 50 V and the load resistance is 980 Ω. The mean load current will be?

A. 45 mA

B. 90 mA

C. 0.45 A

D. 0.9 A

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 64 Question Id : 4025577664 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

पूर्ण तरंग दिष्टकारी 2 डायोड का इस्तेमाल करता है। प्रत्येक डायोड का आंतरिक प्रतिरोध 20 Ω है। मध्य टैप से प्रत्येक अंतिम छोर तक ट्रान्सफॉर्मर आरएमएस सेकेण्डरी वोल्टेज 50 V है अधिभार प्रतिरोध 980Ω है। माध्य भार धारा होगी ?

A. 45 mA

B. 90 mA

C. 0.45 A

D. 0.9 A

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 65 Question Id : 4025577665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In which of the following method, the effect of armature reaction is more?

A. Armature resistance control

B. Field weakening method

C. Same in both the method

D. None of the above

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 65 Question Id : 4025577665 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न में से किस पद्धति में, आर्मेचर अभिक्रिया अधिक है?

A. आर्मेचर प्रतिरोध नियंत्रण

B. फिल्ड विकनिंग पद्धति

C. दोनों पद्धतियों में समान

D. इनमें से कोई नहीं

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 66 Question Id : 4025577666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is the slew rate of an OPAMP whose output voltage increases from 6V to 15V in 18 microseconds?

A. 0.5 V/ microsecond

B. 5 V/ microsecond

C. 50 V/ second

D. 2 V/ microsecond

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 66 Question Id : 4025577666 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

OPAMP का संघूर्णन (स्लू) दर कितना है, जिसकी आउटपुट वोल्टता 18 माइक्रोसेकेंड में 6V से 15V में बढ़ती है।

A. 0.5 V/माइक्रोसेकेंड

B. 5 V/माइक्रोसेकेंड

C. 50 V/माइक्रोसेकेंड

D. 2 V/माइक्रोसेकेंड

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 67 Question Id : 4025577667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A train with 500 meter length is running at a speed of 36 km/hr. How much time will it take to pass a pole on the way?

A. 50 s

B. 72 s

C. 100 s

D. 12 s

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 67 Question Id : 4025577667 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

500 मीटर लम्बी एक ट्रेन 36 कि.मी./घंटा की चाल से चल रही है। रास्ते में पड़ने वाले खंभे को पार करने में इसे कितना समय लगेगा?

A. 50 सेकेंड

B. 72 सेकेंड

C. 100 सेकेंड

D. 12 सेकेंड

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 68 Question Id : 4025577668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

What is the area of an equilateral triangle with side ‘a’?

A. $\frac{(\sqrt{3})}{4} a^2$

B. $\frac{(\sqrt{3})}{2} a^2$

C. $\frac{(\sqrt{3})}{6} a^2$

D. $\sqrt{3}\, a^2$

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 68 Question Id : 4025577668 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक समबाहु त्रिभुज जिसकी भुजा ‘a’ है, उसका क्षेत्रफल क्या है ?

A. $\frac{(\sqrt{3})}{4} a^2$

B. $\frac{(\sqrt{3})}{2} a^2$

C. $\frac{(\sqrt{3})}{6} a^2$

D. $\sqrt{3}\, a^2$

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 69 Question Id : 4025577669 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

With the unit of a quantity the prefix of TERA signifies

A. 10^9

B. 10^{12}

C. 10^{15}

D. 10^{10}

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 69 Question Id : 4025577669 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

मात्रा की इकाई के साथ TERA का पूर्वप्रत्यय विशेषता बताता है

A. 10^9

B. 10^{12}

C. 10^{15}

D. 10^{10}

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 70 Question Id : 4025577670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

For which of the following process, the thermal conduction is maximum

A. Combustion

B. Radiation

C. Convection

D. Conduction

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 70 Question Id : 4025577670 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्नलिखित में से कौन- सी प्रक्रिया में ऊष्मा चालन अधिकतम होता है?

A. दहन
B. विकिरण
C. संवहन
D. चालन

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 71 Question Id : 4025577671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Mode is the

A. Middle value
B. Least-frequent value
C. Most frequent value
D. Average value

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 71 Question Id : 4025577671 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

विधा (मोड) ..... है।

A. मध्यम मान
B. न्यूनतम नियमित मान
C. अधिकतम नियमित मान
D. औसतम मान

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 72 Question Id : 4025577672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

For an AM signal, the bandwidth is 6 kHz and the highest frequency component is 600 kHz.

The carrier frequency used for this AM signal is?

A. 600 k Hz

B. 603 kHz

C. 597 kHz

D. 606 k Hz

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 72 Question Id : 4025577672 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक AM सिग्नल की तरंगदैर्ध्य 6 kHz तथा उच्चतम आवृत्ति घटक (कम्पोनेंट) 600 kHz है। इस AM सिग्नल की वाहक आवृत्ति क्या होगी?

A. 600 kHz

B. 603 kHz

C. 597 kHz

D. 606 kHz

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 73 Question Id : 4025577673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

A broadcast AM transmitter radiates 10 k W. If the modulation is 60%, how much power is contained in the side-band?

A. 8.47 kW

B. 1.53 kW

C. 5 kW

D. 3.06 kW

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 73 Question Id : 4025577673 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक ब्रॉडकास्ट AM ट्रांसमीटर 10 k W विकिरण उत्पन्न करता है। यदि मॉडुलन 60% है, तो साइड-बैंड में कितना पावर विद्यान है?

A. 8.47 kW

B. 1.53 kW

C. 5 kW

D. 3.06 kW

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 74 Question Id : 4025577674 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

The temperature coefficient of an extrinsic semiconductor is?

A. Negative

B. Positive

C. Zero

D. Same as metals

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 74 Question Id : 4025577674 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

बाह्य अर्धचालक का ताप गुणांक .... है।

A. ऋणात्मक

B. धनात्मक

C. शून्य

D. धातु के समान

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 75 Question Id : 4025577675 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

An oscillator with best frequency stability and accuracy is ___ .

A. Crystal Oscillator

B. Colpitts Oscillator

C. Hartley Oscillator

D. RC Oscillator

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 75 Question Id : 4025577675 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

सर्वोत्तम आवृत्ति स्थिरता एवं सटीकता युक्त दोलित्र है।

A. मणिभ दोलित्र

B. कॉलपिट दोलित्र

C. हार्टले दोलित्र

D. आरसी दोलित्र

Options :

✔ A

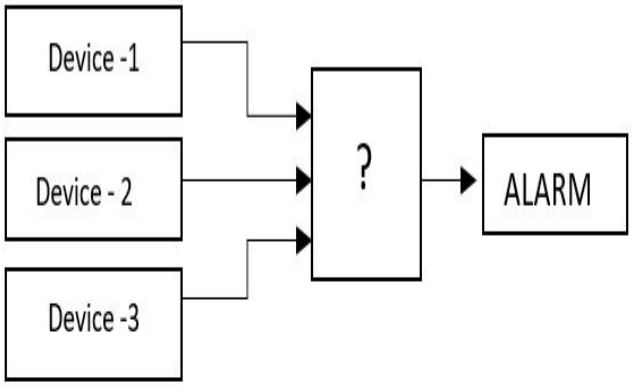
✖ B

✖ C

✖ D

Question Number : 76 Question Id : 4025577676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33



Which gate to be utilized to get alarm if any one of the three devices fails? Given fail = 0

A. NOR
B. NAND
C. AND
D. OR

Options :

✖ A

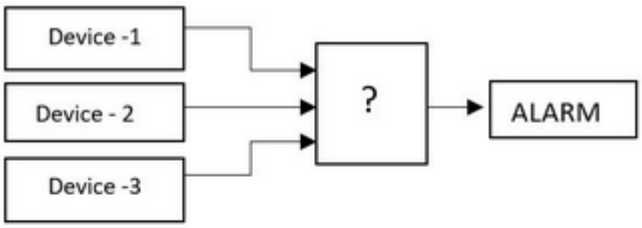
✔ B

✖ C

✖ D

Question Number : 76 Question Id : 4025577676 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33



यदि तीनों युक्तियों में से एक फेल हो जाए तो अलार्म प्राप्त करने के लिए कौन सा गेट प्रयोग किया जाए? दिया गया फेल=0

A. NOR

B. NAND

C. AND

D. OR

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 77 Question Id : 4025577677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Which of the following is accurate of all the ADCs?

A. Integrating type

B. Successive Approximation

C. Flash type

D. Sigma Delta

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 77 Question Id : 4025577677 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

निम्न में से कौन सा ADC सबसे अधिक परिशुद्धता प्रदान करता है

A. इंटिग्रेटिंग टाइप

B. सक्सिव एप्रोसिमेशन

C. फ्लैश टाइप

D. सिग्मा डेल्टा

Options :

✔ A

✖ B

✖ C

✖ D

Question Number : 78 Question Id : 4025577678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Two masses of 1 g and 4 g are moving with equal kinetic energy. The ratio of the magnitude of their linear momentums is?

A. 4:1

B. 1:2

C. 0:1

D. 1:6

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 78 Question Id : 4025577678 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

1g व 4g के दो द्रव्यमान समान गतिक ऊर्जा में बढ़ रहे हैं । इसके रैखिक संवेग के परिमाण का अनुपात ..... है ।

A. 4:1

B. 1:2

C. 0:1

D. 1:6

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 79 Question Id : 4025577679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

In a broadcast superheterodyne receiver

A. Local oscillator operates below signal frequency

B. Mixer input must be tuned to the signal frequency

C. Local oscillator frequency is normally double the IF

D. RF amplifier normally works at 455kHz above the carrier frequency

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 79 Question Id : 4025577679 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

ब्रोडकास्ट सूपरहेट्रोडाइन अभिग्राही (रिसीवर) में ..... है

A. लोकल दोलित्र सिग्नल आवृत्ति के नीचे प्रचलित होता है

B. मिश्रक इनपुट सिग्नल आवृत्ति में ट्यून किया जाना चाहिए

C. लोकल दोलित्र आवृत्ति साधारणतया IF से दोगुना हो जाता है

D. आरएफ प्रवर्धक (एंप्लिफायर) साधारणतया वाहक (कैरियर) आवृत्ति से 455kHz ऊपर कार्य करता है

Options :

✖ A

✔ B

✖ C

✖ D

Question Number : 80 Question Id : 4025577680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

Input voltage applied to a circuit is 1 V rms and the output is 1 mV rms. Net gain of the circuit is

A. 30 dB
B. + 60 dB
C. - 60 dB
D. + 30 dB

Options :

✖ A

✖ B

✔ C

✖ D

Question Number : 80 Question Id : 4025577680 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0.33

एक परिपथ में इनपुट वोल्टेज 1 V rms तथा आउटपुट 1 mV rms लगाया जाता है। परिपथ की निवल (Net) लब्धि है

A. 30 dB
B. + 60 dB
C. - 60 dB
D. + 30 dB

Options :

✖ A

✖ B

✔ C

✖ D