



# RAILWAY RECRUITMENT BOARDS

## रेलवे भर्ती बोर्ड

### 2<sup>nd</sup> Stage CBT for ALP & TECHNICIANS (CEN-01/2018)

Roll No:	
Participants Name:	
Test Center Name:	
Test Date:	23/01/2019
Test Time:	4:30 PM - 7:00 PM
Subject:	Part A and Exam Trade : Mechanic Radio and TV

- Options shown in green color with a tick icon are correct
- Chosen option on top right of the question indicates the option selected by the candidate
- The numbers indicated against the Question ID and Option ID are the numbers to be noted and used for raising objections

#### Section : Part A

Q.1 एक पतलून खरीदने में ₹2,000 खर्च हुए। खर्च हुए पैसे शशि के पास के कुल पैसे का 2/5वां भाग थे। उसके पास कुल कितने पैसे थे?

- Ans
- 1. ₹4,250
  - 2. ₹4,750
  - 3. ₹5,000
  - 4. ₹4,000

Question ID : 96234010731

Option 1 ID : 96234042922

Option 2 ID : 96234042923

Option 3 ID : 96234042924

Option 4 ID : 96234042921

Status : Answered

Chosen Option : 3

Q.2 X और Y की उम्र का अनुपात 4 : 7 है। तीन वर्ष पहले, उनकी उम्र का अनुपात 1 : 2 था। उनकी वर्तमान उम्र में कितना अंतर (Y - X) है?

- Ans
- 1. 9
  - 2. 3
  - 3. 6
  - 4. 7.5

Question ID : 96234010750

Option 1 ID : 96234043000

Option 2 ID : 96234042997

Option 3 ID : 96234042998

Option 4 ID : 96234042999

Status : Answered

Chosen Option : 1

**Q.3** Given below are two statements, followed by two conclusions, I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow(s) from the given statements.

Statement 1: No quadrilaterals are polygons.  
Statement 2: All polygons are rhombuses.

Conclusion I: Some rhombuses are quadrilaterals.  
Conclusion II: Some rhombuses are polygons.

- Ans
- 1. Neither I nor II follows
  - 2. Only conclusion I follows
  - 3. Only conclusion II follows
  - 4. Both I and II follow

Question ID : 96234010760

Option 1 ID : 96234043040

Option 2 ID : 96234043037

Option 3 ID : 96234043038

Option 4 ID : 96234043039

Status : Answered

Chosen Option : 3

**Q.4** How many medals did India win in Rio Olympics, 2016?

- Ans
- 1. 4
  - 2. 3
  - 3. 2
  - 4. 5

Question ID : 96234010676

Option 1 ID : 96234042701

Option 2 ID : 96234042703

Option 3 ID : 96234042704

Option 4 ID : 96234042702

Status : Answered

Chosen Option : 3

**Q.5** What is the distance between the points (4, 3) and (3, -2)?

- Ans
- 1.  $\sqrt{24}$
  - 2. 5
  - 3. 6
  - 4.  $\sqrt{26}$

Question ID : 96234010739

Option 1 ID : 96234042954

Option 2 ID : 96234042955

Option 3 ID : 96234042956

Option 4 ID : 96234042953

Status : Answered

Chosen Option : 4

Q.6

If  $5050 \times 0.5x = 25250$ , then  $2505 \div x^2 = ?$

- Ans  1. 25.05  
 2. 2.505  
 3. 250.5  
 4. 0.2505

Question ID : 96234010728  
Option 1 ID : 96234042910  
Option 2 ID : 96234042909  
Option 3 ID : 96234042912  
Option 4 ID : 96234042911  
Status : Answered  
Chosen Option : 1

Q.7 किसी पीतल की छड़ (ऊष्मा चालकता  $109 \text{ J/(m-K)}$ ) में अनुप्रस्थ काट का क्षेत्रफल  $0.04 \text{ m}^2$  और लंबाई  $20 \text{ cm}$  है। यदि छड़ के दोनों सिरों पर  $200^\circ\text{C}$  के तापमान का अंतर बनाए रखा जाता है, तो छड़ के माध्यम से ऊष्मा प्रवाह की दर क्या होगी?

- Ans  1. 4.36 kJ/s  
 2. 2.32 kJ/s  
 3. 5.80 kJ/s  
 4. 3.42 kJ/s

Question ID : 96234010715  
Option 1 ID : 96234042859  
Option 2 ID : 96234042857  
Option 3 ID : 96234042860  
Option 4 ID : 96234042858  
Status : Not Answered  
Chosen Option : --

Q.8 Kuchipudi has its roots in which Indian State?

- Ans  1. Andhra Pradesh  
 2. Kerala  
 3. Himachal Pradesh  
 4. Arunachal Pradesh

Question ID : 96234010685  
Option 1 ID : 96234042738  
Option 2 ID : 96234042739  
Option 3 ID : 96234042740  
Option 4 ID : 96234042737  
Status : Answered  
Chosen Option : 1

Q.9 200 g भार वाले लोहे के टुकड़े पर ऊष्मा  $30^\circ\text{C}$  से बढ़ाकर  $60^\circ\text{C}$  की जाती है। टुकड़े पर कितनी ऊष्मा स्थानांतरित की गई थी (यदि लोहे की विशिष्ट ऊष्मा  $450 \text{ Jkg}^{-1}\text{K}^{-1}$  है)?

- Ans  1. 27 J  
 2. 270 J  
 3. 2700 J

✗ 4. 6000 J

Question ID : 96234010714

Option 1 ID : 96234042853

Option 2 ID : 96234042854

Option 3 ID : 96234042855

Option 4 ID : 96234042856

Status : Answered

Chosen Option : 3

Q.1  
0 बिंदु (-2, -6) का Y-अक्ष पर प्रतिबिंब क्या होगा?

Ans ✗ 1. (-6, -2)

✗ 2. (-2, 6)

✗ 3. (2, 6)

✓ 4. (2, -6)

Question ID : 96234010738

Option 1 ID : 96234042951

Option 2 ID : 96234042949

Option 3 ID : 96234042950

Option 4 ID : 96234042952

Status : Answered

Chosen Option : 4

Q.1  
1 Name the scientist who discovered bacteria.

Ans ✗ 1. Robert Koch

✗ 2. James Chadwick

✓ 3. AV Leeuwenhoek

✗ 4. Eugen Goldstein

Question ID : 96234010678

Option 1 ID : 96234042709

Option 2 ID : 96234042710

Option 3 ID : 96234042712

Option 4 ID : 96234042711

Status : Not Answered

Chosen Option : --

Q.1  
2 जब भी शोर का स्तर शोर के मानक जोखिम से अधिक हो जाता है, तो \_\_\_\_\_ सुरक्षा पहनी जानी चाहिए।

Ans ✗ 1. पैर

✗ 2. सिर

✓ 3. श्रवण

✗ 4. आंख

Question ID : 96234010706

Option 1 ID : 96234042823

Option 2 ID : 96234042824

Option 3 ID : 96234042821

Option 4 ID : 96234042822  
Status : Answered  
Chosen Option : 3

Q.1 3 महाराष्ट्र के अजंता की गुफाओं की पेंटिंग और मूर्तियां निम्नलिखित में से किसकी कहानियों को दर्शाती हैं?

- Ans
- 1. इस्लामी
  - 2. अरबी
  - 3. मराठा
  - 4. बौद्ध

Question ID : 96234010680  
Option 1 ID : 96234042719  
Option 2 ID : 96234042720  
Option 3 ID : 96234042717  
Option 4 ID : 96234042718  
Status : Answered  
Chosen Option : 4

Q.1 4 A motorcycle travelled 1000 m at 36 km/hr. Find the time (in seconds) taken by the motorcycle to cover this distance.

- Ans
- 1. 300
  - 2. 200
  - 3. 400
  - 4. 100

Question ID : 96234010720  
Option 1 ID : 96234042879  
Option 2 ID : 96234042878  
Option 3 ID : 96234042880  
Option 4 ID : 96234042877  
Status : Answered  
Chosen Option : 4

Q.1 5 A can do  $\frac{2}{5}$  of a work in 10 days. B can do  $\frac{1}{2}$  of the same work in 10 days. They worked together for 5 days and then A left. In how many days will B finish the remaining work?

- Ans
- 1. 8
  - 2. 10
  - 3. 11
  - 4. 9

Question ID : 96234010749  
Option 1 ID : 96234042996  
Option 2 ID : 96234042994  
Option 3 ID : 96234042993  
Option 4 ID : 96234042995  
Status : Answered  
Chosen Option : 3

Q.1 6 In engineering drawing, the letters LH signifies \_\_\_\_\_.

- Ans
- 1. Limit of Height

2. Low Heat  
 3. Left Hand  
 4. Level Hide

Question ID : 96234010699  
Option 1 ID : 96234042795  
Option 2 ID : 96234042793  
Option 3 ID : 96234042796  
Option 4 ID : 96234042794  
Status : Not Answered  
Chosen Option : --

Q.1 Two resistors of  $2\ \Omega$  and  $6\ \Omega$  are connected in series and this combination is connected across a  $12\ \text{V}$  battery. Find the current in the  $6\ \Omega$  resistor.

- Ans  1.  $0.5\ \text{A}$   
 2.  $1.5\ \text{A}$   
 3.  $3.5\ \text{A}$   
 4.  $2.5\ \text{A}$

Question ID : 96234010724  
Option 1 ID : 96234042893  
Option 2 ID : 96234042894  
Option 3 ID : 96234042896  
Option 4 ID : 96234042895  
Status : Answered  
Chosen Option : 2

Q.1 Two planes E and F start flying from the same point. E flies  $7\ \text{km}$  west, then turns to its left and flies  $15\ \text{km}$ . Meanwhile F flies  $11\ \text{km}$  east and turns right and flies  $15\ \text{km}$ . Where is F with respect to E?

- Ans  1. F is  $18\ \text{km}$  west of E  
 2. F is  $4\ \text{km}$  east of E  
 3. F is  $4\ \text{km}$  west of E  
 4. F is  $18\ \text{km}$  east of E

Question ID : 96234010773  
Option 1 ID : 96234043089  
Option 2 ID : 96234043090  
Option 3 ID : 96234043091  
Option 4 ID : 96234043092  
Status : Answered  
Chosen Option : 4

Q.1 लंबाई  $L$  और त्रिज्या  $R$  वाले किसी बेलनाकार तार का प्रतिरोध  $R$  है। उसी सामग्री में बनी उसकी आधी लंबाई वाली और आधी त्रिज्या वाले तार का प्रतिरोध कितना होगा?

- Ans  1.  $2R$   
 2.  $R/2$   
 3.  $R$   
 4.  $4R$

Question ID : 96234010722  
Option 1 ID : 96234042887

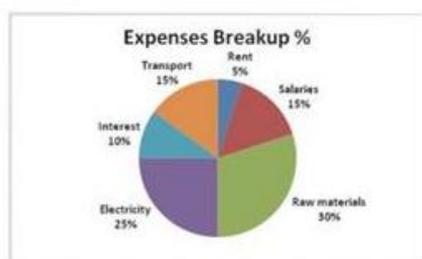
Option 2 ID : 96234042885  
Option 3 ID : 96234042886  
Option 4 ID : 96234042888  
Status : Answered  
Chosen Option : 1

Q.2 0 If straight lines are drawn from various points on the contour of an object to meet a plane, the figure obtained on the plane is called the \_\_\_\_\_ of the object.

- Ans
- ✓ 1. projection
  - ✗ 2. development
  - ✗ 3. animation
  - ✗ 4. dimensioning

Question ID : 96234010696  
Option 1 ID : 96234042781  
Option 2 ID : 96234042783  
Option 3 ID : 96234042782  
Option 4 ID : 96234042784  
Status : Answered  
Chosen Option : 1

Q.2 1 The pie chart shows the breakup in percentages of the various expenses of a Company. Study the diagram and answer the following question.



What is the interest expense if total expenses are ₹25,000 approximately?

- Ans
- ✓ 1. ₹2,500
  - ✗ 2. ₹5,000
  - ✗ 3. ₹1,800
  - ✗ 4. ₹9,000

Question ID : 96234010766  
Option 1 ID : 96234043061  
Option 2 ID : 96234043062  
Option 3 ID : 96234043064  
Option 4 ID : 96234043063  
Status : Answered  
Chosen Option : 1

Q.2 2 एक गोलार्ध का गोलाई वाला क्षेत्रफल कितना होगा जिसकी त्रिज्या 7 सेंटीमीटर है? ( $\pi = 22/7$ )

Ans

1. 924 वर्ग सेंटीमीटर
2. 308 वर्ग सेंटीमीटर
3. 154 वर्ग सेंटीमीटर
4. 616 वर्ग सेंटीमीटर

Question ID : 96234010733  
Option 1 ID : 96234042931  
Option 2 ID : 96234042930  
Option 3 ID : 96234042932  
Option 4 ID : 96234042929  
Status : Answered  
Chosen Option : 3

Q.2 Two resistors of  $10\ \Omega$  and  $20\ \Omega$  are connected in series and this combination is connected across a 30 V supply voltage.  
3 Find the voltage across the  $10\ \Omega$  resistor.

- Ans  1. 10 V
2. 15 V
3. 5 V
4. 20 V

Question ID : 96234010723  
Option 1 ID : 96234042890  
Option 2 ID : 96234042892  
Option 3 ID : 96234042889  
Option 4 ID : 96234042891  
Status : Answered  
Chosen Option : 1

Q.2 निम्नलिखित में कौन उस सैद्धांतिक निश्चित तल, अक्ष या बिंदु स्थान की व्याख्या करता है, जो जी.डी. (GD) और T या आयामी सह्यता को भी संदर्भित करता है?

- Ans  1. फ्लैज
2. तथ्य (डैटम)
3. फ्रेम
4. अनुभाग (सेक्शन)

Question ID : 96234010695  
Option 1 ID : 96234042779  
Option 2 ID : 96234042777  
Option 3 ID : 96234042780  
Option 4 ID : 96234042778  
Status : Not Answered  
Chosen Option : --

Q.2 An object starts from rest at  $x = 0\ \text{m}$  and moves with a constant acceleration of  $1.6\ \text{m/s}^2$  along the x-axis. During its journey  
5 from  $x = 12.8\ \text{m}$  to  $x = 20.0\ \text{m}$ , its average velocity will be \_\_\_\_\_.

- Ans  1. 8.8 m/s
2. 2.4 m/s
3. 7.2 m/s
4. 3.6 m/s

Question ID : 96234010713  
Option 1 ID : 96234042852  
Option 2 ID : 96234042849  
Option 3 ID : 96234042851  
Option 4 ID : 96234042850  
Status : Not Answered  
Chosen Option : --

Q.2 What is the least number which when doubled is perfectly divisible by 7, 12 and 15?

6

- Ans
- 1. 220
  - 2. 214
  - 3. 210
  - 4. 215

Question ID : 96234010732  
Option 1 ID : 96234042926  
Option 2 ID : 96234042928  
Option 3 ID : 96234042925  
Option 4 ID : 96234042927  
Status : Answered  
Chosen Option : 3

Q.2 An object weighs X units on the earth. If we take the same object to the moon, its weight there will be \_\_\_\_\_.

7

- Ans
- 1. less than X
  - 2. zero
  - 3. equal to X
  - 4. more than X

Question ID : 96234010694  
Option 1 ID : 96234042774  
Option 2 ID : 96234042776  
Option 3 ID : 96234042775  
Option 4 ID : 96234042773  
Status : Answered  
Chosen Option : 1

Q.2 A got ₹80 as his share of profit where the total profit was ₹240 and the ratio of profit distribution between A and B was x :

8

2. What is the value of x?
- Ans
- 1. 4
  - 2. 5
  - 3. 2
  - 4. 1

Question ID : 96234010744  
Option 1 ID : 96234042975  
Option 2 ID : 96234042976  
Option 3 ID : 96234042974  
Option 4 ID : 96234042973  
Status : Answered  
Chosen Option : 4

Q.2  
9 Unscramble the letters in the words given below and find the odd word out.

- Ans
- 1. ILNO
  - 2. WCO
  - 3. FLOW
  - 4. ERTIG

Question ID : 96234010762  
Option 1 ID : 96234043045  
Option 2 ID : 96234043047  
Option 3 ID : 96234043048  
Option 4 ID : 96234043046  
Status : Answered  
Chosen Option : 2

Q.3  
0 Pipes A and B can fill a tank in 12 minutes and 16 minutes respectively. Both A and B are opened for 4 minutes and then A is closed. How much extra time will B take to fill the tank completely?

- Ans
- 1.  $\frac{21}{4}$  minutes
  - 2.  $\frac{20}{3}$  minutes
  - 3. 7 minutes
  - 4. 6 minutes

Question ID : 96234010742  
Option 1 ID : 96234042968  
Option 2 ID : 96234042966  
Option 3 ID : 96234042965  
Option 4 ID : 96234042967  
Status : Answered  
Chosen Option : 2

Q.3  
1 The volume of a given amount of water \_\_\_\_\_ between 0° C to 4° C.

- Ans
- 1. decreases
  - 2. remains constant
  - 3. increases
  - 4. is zero

Question ID : 96234010691  
Option 1 ID : 96234042761  
Option 2 ID : 96234042762  
Option 3 ID : 96234042764  
Option 4 ID : 96234042763  
Status : Answered  
Chosen Option : 3

Q.3  
2 If the width of a standard engineering drawing sheet is 841 mm, then its length would be \_\_\_\_\_ mm.

- Ans
- 1. 1216
  - 2. 1250

✓ 3. 1189

✗ 4. 1000

Question ID : 96234010698

Option 1 ID : 96234042790

Option 2 ID : 96234042791

Option 3 ID : 96234042792

Option 4 ID : 96234042789

Status : Answered

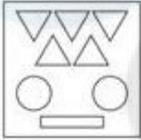
Chosen Option : 2

Q.3 Choose the figure that is different from the rest.

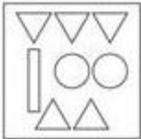
3

Ans

✗ 1.



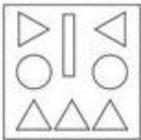
✗ 2.



✓ 3.



✗ 4.



Question ID : 96234010771

Option 1 ID : 96234043081

Option 2 ID : 96234043084

Option 3 ID : 96234043082

Option 4 ID : 96234043083

Status : Answered

Chosen Option : 3

Q.3 If C S D means C is daughter of D, C & D means C is mother of D and C % D means C is son of D, then what does W \$ X & Y % Z mean?

4

Ans ✗ 1. Z is mother of W

✓ 2. Z is father of W

✗ 3. Z is daughter of W

✗ 4. Z is wife of W

Question ID : 96234010758

Option 1 ID : 96234043031

Option 2 ID : 96234043030

Option 3 ID : 96234043032

Option 4 ID : 96234043029

Status : Answered

Chosen Option : 2

Q.3 Two resistors of  $2\ \Omega$  and  $6\ \Omega$  are connected in series and this combination is connected across a  $12\ \text{V}$  battery. Find the power supplied by the battery.

- 5
- Ans
- 1.  $18\ \text{W}$
  - 2.  $16\ \text{W}$
  - 3.  $14\ \text{W}$
  - 4.  $10\ \text{W}$

Question ID : 96234010725

Option 1 ID : 96234042900

Option 2 ID : 96234042899

Option 3 ID : 96234042898

Option 4 ID : 96234042897

Status : Answered

Chosen Option : 1

Q.3 I, J, K and L are sitting in a row. L and I are sitting next to each other and I and K are at the ends. Who is sitting next to J?

- 6
- Ans
- 1. L and I
  - 2. K and L
  - 3. Only K
  - 4. Only L

Question ID : 96234010769

Option 1 ID : 96234043073

Option 2 ID : 96234043075

Option 3 ID : 96234043076

Option 4 ID : 96234043074

Status : Not Answered

Chosen Option : --

Q.3 Which of the following options does not have an SI base unit?

- 7
- Ans
- 1. Luminous intensity
  - 2. Electric current
  - 3. Frequency
  - 4. Amount of substance

Question ID : 96234010686

Option 1 ID : 96234042742

Option 2 ID : 96234042743

Option 3 ID : 96234042744

Option 4 ID : 96234042741

Status : Answered

Chosen Option : 3

Q.3 An article was sold for ₹12,000. Had a discount of 15% been offered, a profit of 2% would have been made. What was the cost price?

- 8
- Ans
- 1. ₹11,000
  - 2. ₹10,000

3. ₹10,800

4. ₹10,200

Question ID : 96234010729

Option 1 ID : 96234042913

Option 2 ID : 96234042914

Option 3 ID : 96234042915

Option 4 ID : 96234042916

Status : Answered

Chosen Option : 2

Q.3  
9 RK Narayan is famous for his book \_\_\_\_\_.

Ans  1. Two Lives

2. Malgudi Days

3. The Toom on the Roof

4. A Suitable Boy

Question ID : 96234010682

Option 1 ID : 96234042726

Option 2 ID : 96234042727

Option 3 ID : 96234042725

Option 4 ID : 96234042728

Status : Answered

Chosen Option : 2

Q.4  
0 A machine was bought for ₹1,500 and a repairing charge of ₹100 was paid afterwards. At what price should it be sold to gain a profit of 25%?

Ans  1. ₹1,920

2. ₹2,040

3. ₹2,000

4. ₹1,960

Question ID : 96234010730

Option 1 ID : 96234042917

Option 2 ID : 96234042920

Option 3 ID : 96234042919

Option 4 ID : 96234042918

Status : Answered

Chosen Option : 3

Q.4  
1 Molar specific heat capacity of a substance is \_\_\_\_\_.

Ans  1.  $\mu \left( \frac{\Delta T}{\Delta Q} \right)$

2.  $\mu \left( \frac{\Delta Q}{\Delta T} \right)$

3.  $\left( \frac{1}{\mu} \right) \left( \frac{\Delta T}{\Delta Q} \right)$

✓ 4.  $\left(\frac{1}{\mu}\right) \left(\frac{\Delta Q}{\Delta T}\right)$

Question ID : 96234010703  
Option 1 ID : 96234042812  
Option 2 ID : 96234042809  
Option 3 ID : 96234042810  
Option 4 ID : 96234042811  
Status : Answered  
Chosen Option : 2

Q.4 Velocity ratio of simple machine is the ratio of distance travelled by the \_\_\_\_\_ to the distance travelled by the \_\_\_\_\_ in  
2 the machine.

- Ans
- ✗ 1. load; load
  - ✗ 2. load; effort
  - ✓ 3. effort; load
  - ✗ 4. effort; effort

Question ID : 96234010709  
Option 1 ID : 96234042836  
Option 2 ID : 96234042834  
Option 3 ID : 96234042833  
Option 4 ID : 96234042835  
Status : Not Answered  
Chosen Option : --

Q.4 एक संख्या 50 से उतनी ही अधिक है जितनी 84 से कम है। वह संख्या क्या है?  
3

- Ans
- ✗ 1. 66
  - ✗ 2. 65
  - ✗ 3. 68
  - ✓ 4. 67

Question ID : 96234010736  
Option 1 ID : 96234042942  
Option 2 ID : 96234042941  
Option 3 ID : 96234042944  
Option 4 ID : 96234042943  
Status : Answered  
Chosen Option : 1

Q.4 A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.  
4  
1.14, 1.28, 1.42, ?, 1.70, 1.84

- Ans
- ✗ 1. 1.62
  - ✓ 2. 1.56
  - ✗ 3. 1.54
  - ✗ 4. 1.68

Question ID : 96234010754  
Option 1 ID : 96234043013  
Option 2 ID : 96234043014

Option 3 ID : 96234043015  
Option 4 ID : 96234043016  
Status : Answered  
Chosen Option : 2

Q.4 वह विकल्प चुनिए जो तीसरे पद से उसी प्रकार संबंधित हो जिस प्रकार दूसरा पद पहले पद से है।  
5

लंबा: छोटा :: खुश : ?

- Ans
- 1. दुखी
  - 2. मुस्कराहट
  - 3. प्रसन्न
  - 4. भावना

Question ID : 96234010751  
Option 1 ID : 96234043001  
Option 2 ID : 96234043003  
Option 3 ID : 96234043002  
Option 4 ID : 96234043004  
Status : Answered  
Chosen Option : 1

Q.4 A sum of ₹10,000 amounts to ₹11,449 in 2 years, when the interest is compounded annually. The interest rate percent per annum is:  
6

- Ans
- 1. 6%
  - 2. 7%
  - 3. 1%
  - 4. 8%

Question ID : 96234010735  
Option 1 ID : 96234042937  
Option 2 ID : 96234042940  
Option 3 ID : 96234042939  
Option 4 ID : 96234042938  
Status : Not Answered  
Chosen Option : --

Q.4 Which two signs should be interchanged to make the given equation correct?  
7

$$9 \div 3 + 8 \times 2 - 15 = 2$$

- Ans
- 1.  $\times$  and  $-$
  - 2.  $+$  and  $\times$
  - 3.  $\div$  and  $-$
  - 4.  $+$  and  $-$

Question ID : 96234010757  
Option 1 ID : 96234043028  
Option 2 ID : 96234043025  
Option 3 ID : 96234043027  
Option 4 ID : 96234043026  
Status : Answered

Chosen Option : 4

Q.4  
8 The effort in a class 1 lever is in \_\_\_\_\_ direction(s).

- Ans
- 1. three
  - 2. multiple
  - 3. one
  - 4. two

Question ID : 96234010712  
Option 1 ID : 96234042847  
Option 2 ID : 96234042845  
Option 3 ID : 96234042848  
Option 4 ID : 96234042846  
Status : Answered  
Chosen Option : 3

Q.4  
9 In a code language, 295 means 'water is liquid', 549 means 'oil is liquid' and 824 means 'oil on water'. Find the code for 'on'.

- Ans
- 1. 5
  - 2. 4
  - 3. 8
  - 4. 2

Question ID : 96234010755  
Option 1 ID : 96234043019  
Option 2 ID : 96234043017  
Option 3 ID : 96234043020  
Option 4 ID : 96234043018  
Status : Answered  
Chosen Option : 3

Q.5  
0 What is the unit's digit in  $3^{66} \times 6^{41} \times 7^{53}$

- Ans
- 1. 6
  - 2. 8
  - 3. 7
  - 4. 3

Question ID : 96234010727  
Option 1 ID : 96234042907  
Option 2 ID : 96234042905  
Option 3 ID : 96234042906  
Option 4 ID : 96234042908  
Status : Answered  
Chosen Option : 3

Q.5  
1 Tap M and N can together fill a cistern in  $48/13$  minutes. N alone can fill it in 6 minutes. How much time will M alone take to fill the cistern?

- Ans
- 1. 9.6 minutes
  - 2. 9 minutes

3. 9.4 minutes

4. 8.6 minutes

Question ID : 96234010743

Option 1 ID : 96234042969

Option 2 ID : 96234042971

Option 3 ID : 96234042970

Option 4 ID : 96234042972

Status : Not Answered

Chosen Option : --

Q.5  
2 What is 80% of 50% of 90?

Ans  1. 36

2. 30

3. 34

4. 32

Question ID : 96234010745

Option 1 ID : 96234042980

Option 2 ID : 96234042977

Option 3 ID : 96234042979

Option 4 ID : 96234042978

Status : Answered

Chosen Option : 1

Q.5  
3 Who was the first governor of the Reserve Bank of India?

Ans  1. KR Puri

2. Sir James Braid Taylor

3. Sir Osborne A Smith

4. HVR Iyengar

Question ID : 96234010684

Option 1 ID : 96234042733

Option 2 ID : 96234042735

Option 3 ID : 96234042734

Option 4 ID : 96234042736

Status : Answered

Chosen Option : 3

Q.5  
4 नीचे एक प्रश्न के साथ दो तर्क, I और II, दिए गए हैं। तय कीजिए कि दिए गए तर्कों में से कौन प्रश्न के संबंध में एक मजबूत तर्क है, यदि हो।

प्रश्न: क्या टेलीविजन पर विज्ञापन प्रतिबंधित कर दिए जाने चाहिए?

तर्क I : हां, विज्ञापन अनैतिक होते हैं।

तर्क II : नहीं, विज्ञापन से होने वाली आमदनी दर्शकों की लागत कम करने में सहायता करती है।

Ans  1. तर्क I और तर्क II दोनों मजबूत हैं।

2. केवल तर्क II मजबूत है।

3. न तर्क I मजबूत है न तर्क II।

4. केवल तर्क । मजबूत है।

Question ID : 96234010775

Option 1 ID : 96234043099

Option 2 ID : 96234043098

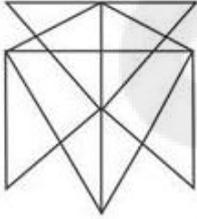
Option 3 ID : 96234043100

Option 4 ID : 96234043097

Status : Not Answered

Chosen Option : --

Q.5  
5 What is the minimum number of lines required to make the given image?



- Ans
- 1. 12
  - 2. 9
  - 3. 11
  - 4. 10

Question ID : 96234010768

Option 1 ID : 96234043072

Option 2 ID : 96234043069

Option 3 ID : 96234043071

Option 4 ID : 96234043070

Status : Not Answered

Chosen Option : --

Q.5  
6 गिरती हुई वस्तुओं से अपने \_\_\_\_\_ की सुरक्षा के लिए निर्दिष्ट क्षेत्रों में सेफ्टी बूट या जूते पहनने चाहिए।

- Ans
- 1. सिर
  - 2. पैर के पंजे
  - 3. आंख
  - 4. कान

Question ID : 96234010705

Option 1 ID : 96234042820

Option 2 ID : 96234042819

Option 3 ID : 96234042818

Option 4 ID : 96234042817

Status : Answered

Chosen Option : 2

Q.5  
7 A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.  
OOOOOX, OOOOXX, OOOXXX, OXXXXX, ?

- Ans
- 1. OXXXXX

2. OOXXXXXX  
 3. OOXXXX  
 4. XXXXXXX

Question ID : 96234010753  
Option 1 ID : 96234043009  
Option 2 ID : 96234043010  
Option 3 ID : 96234043012  
Option 4 ID : 96234043011  
Status : Answered  
Chosen Option : 1

Q.5 Two resistors, one of  $12\ \Omega$  and the other of  $24\ \Omega$  are connected in parallel. This combination is connected in series with a  $22\ \Omega$  resistor and a  $12\ \text{V}$  battery. The current in the  $12\ \Omega$  resistor is \_\_\_\_\_.

- Ans  1.  $(2/15)\ \text{A}$   
 2.  $(4/15)\ \text{A}$   
 3.  $(8/15)\ \text{A}$   
 4.  $(6/15)\ \text{A}$

Question ID : 96234010716  
Option 1 ID : 96234042861  
Option 2 ID : 96234042862  
Option 3 ID : 96234042864  
Option 4 ID : 96234042863  
Status : Not Answered  
Chosen Option : --

Q.5 An airplane flies at the speed of  $50\ \text{m/s}$ . How much distance (in km) will it cover in a flight of 5 hours?

- Ans  1. 895  
 2. 900  
 3. 850  
 4. 880

Question ID : 96234010734  
Option 1 ID : 96234042935  
Option 2 ID : 96234042936  
Option 3 ID : 96234042933  
Option 4 ID : 96234042934  
Status : Answered  
Chosen Option : 2

Q.6 A car covers  $400\ \text{m}$  in  $20\ \text{seconds}$ . Find the average speed (in  $\text{km/hr}$ ) of the car.

- Ans  1. 108  
 2. 72  
 3. 36  
 4. 124

Question ID : 96234010719  
Option 1 ID : 96234042875

Option 2 ID : 96234042874  
Option 3 ID : 96234042873  
Option 4 ID : 96234042876  
Status : Answered  
Chosen Option : 2

Q.6  
1 The abbreviation AC in an engineering drawing stands for \_\_\_\_\_.

- Ans
- 1. Across Corners
  - 2. Attached Circle
  - 3. Air Conditioning
  - 4. Aerial Cut

Question ID : 96234010697  
Option 1 ID : 96234042785  
Option 2 ID : 96234042788  
Option 3 ID : 96234042786  
Option 4 ID : 96234042787  
Status : Answered  
Chosen Option : 1

Q.6  
2 A software program that has been developed to harm other computers is called a/an \_\_\_\_\_.

- Ans
- 1. malware
  - 2. operating system
  - 3. LAN
  - 4. server

Question ID : 96234010707  
Option 1 ID : 96234042825  
Option 2 ID : 96234042826  
Option 3 ID : 96234042828  
Option 4 ID : 96234042827  
Status : Answered  
Chosen Option : 1

Q.6  
3 Find the odd group of letters from the given alternatives.

- Ans
- 1. VWX
  - 2. PQR
  - 3. HJL
  - 4. EFG

Question ID : 96234010767  
Option 1 ID : 96234043067  
Option 2 ID : 96234043065  
Option 3 ID : 96234043066  
Option 4 ID : 96234043068  
Status : Answered  
Chosen Option : 3

Q.6 The effort applied to move a load is 15 units and the machine advantage is observed to be 3. Find the load.

4

- Ans
- 1. 3 units
  - 2. 5 units
  - 3. 45 units
  - 4. 15 units

Question ID : 96234010711  
Option 1 ID : 96234042844  
Option 2 ID : 96234042842  
Option 3 ID : 96234042841  
Option 4 ID : 96234042843  
Status : Answered  
Chosen Option : 3

Q.6  
5 Where is the Headquarters of UNESCO located?

- Ans
- 1. New York City
  - 2. Washington DC
  - 3. Geneva
  - 4. Paris

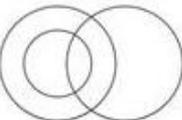
Question ID : 96234010683  
Option 1 ID : 96234042730  
Option 2 ID : 96234042731  
Option 3 ID : 96234042729  
Option 4 ID : 96234042732  
Status : Answered  
Chosen Option : 4

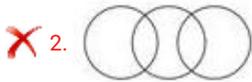
Q.6  
6 A 4-digit number  $1xy7$  is divisible by 11. What is the value of  $x-y$ ?

- Ans
- 1. - 4
  - 2. - 6
  - 3. - 8
  - 4. - 2

Question ID : 96234010726  
Option 1 ID : 96234042902  
Option 2 ID : 96234042901  
Option 3 ID : 96234042904  
Option 4 ID : 96234042903  
Status : Answered  
Chosen Option : 3

Q.6  
7 Which of the following Venn diagrams best represents the relationship between Indians, doctors and women?

- Ans
- 1. 



Question ID : 96234010764

Option 1 ID : 96234043056

Option 2 ID : 96234043053

Option 3 ID : 96234043054

Option 4 ID : 96234043055

Status : Answered

Chosen Option : 3

Q.6  
8 If a body is NOT homogeneous, then its density is a function of its \_\_\_\_\_.

- Ans
- 1. velocity
  - 2. acceleration
  - 3. position
  - 4. pressure

Question ID : 96234010692

Option 1 ID : 96234042766

Option 2 ID : 96234042767

Option 3 ID : 96234042765

Option 4 ID : 96234042768

Status : Not Answered

Chosen Option : --

Q.6  
9 Identify the material having low coefficient of volume expansion

- Ans
- 1. Mercury
  - 2. Brass
  - 3. Iron
  - 4. Aluminium

Question ID : 96234010701

Option 1 ID : 96234042801

Option 2 ID : 96234042802

Option 3 ID : 96234042803

Option 4 ID : 96234042804

Status : Answered

Chosen Option : 2

Q.7  
0 A and B can do a work in 15 days, B and C can do the work in 20 days and A and C can do the work in 10 days. In how many days will they together complete the work?

- Ans
- 1. 10.91 days
  - 2. 10.67 days
  - 3. 9.23 days
  - 4. 10.71 days

Question ID : 96234010748  
Option 1 ID : 96234042992  
Option 2 ID : 96234042989  
Option 3 ID : 96234042991  
Option 4 ID : 96234042990  
Status : Not Answered  
Chosen Option : --

Q.7  
1 What is the median of 8, 5, 7, 9, 11, 6, 10 ?

- Ans
- 1. 9
  - 2. 8
  - 3. 7
  - 4. 10

Question ID : 96234010746  
Option 1 ID : 96234042983  
Option 2 ID : 96234042982  
Option 3 ID : 96234042981  
Option 4 ID : 96234042984  
Status : Answered  
Chosen Option : 2

Q.7  
2 A cylindrical wire of length  $L$  and radius  $r$  has a resistance of  $R$ . The resistance of another wire of the same material but thrice its length and one-third its radius will be \_\_\_\_\_.

- Ans
- 1.  $R$
  - 2.  $3R$
  - 3.  $27R$
  - 4.  $9R$

Question ID : 96234010717  
Option 1 ID : 96234042868  
Option 2 ID : 96234042867  
Option 3 ID : 96234042865  
Option 4 ID : 96234042866  
Status : Answered  
Chosen Option : 3

Q.7  
3 Which Indian cricketer received the Padma Bhushan in 2018?

- Ans
- 1. MS Dhoni
  - 2. Sachin Tendulkar
  - 3. Saurav Ganguly
  - 4. Virat Kohli

Question ID : 96234010681  
Option 1 ID : 96234042722  
Option 2 ID : 96234042723  
Option 3 ID : 96234042724  
Option 4 ID : 96234042721  
Status : Answered  
Chosen Option : 4

Q.7  
4 Which one of these is a harvest festival?

- Ans
- 1. Deepawali
  - 2. Onam
  - 3. Teej
  - 4. Janmashtami

Question ID : 96234010677  
Option 1 ID : 96234042707  
Option 2 ID : 96234042706  
Option 3 ID : 96234042708  
Option 4 ID : 96234042705  
Status : Answered  
Chosen Option : 2

Q.7 Select the option that is related to the third number in the same way as the second number is related to the first number.

5  
-9/11 : 11/9 :: 13/2 : ?

- Ans
- 1. -7/3
  - 2. -2/13
  - 3. 3/7
  - 4. 2/13

Question ID : 96234010752  
Option 1 ID : 96234043007  
Option 2 ID : 96234043008  
Option 3 ID : 96234043006  
Option 4 ID : 96234043005  
Status : Answered  
Chosen Option : 2

Q.7 In an examination, the highest score and the lowest score differed by 55 and the higher one was 9/4 times the lower one.

6 What is the lowest score?

- Ans
- 1. 44
  - 2. 36
  - 3. 48
  - 4. 40

Question ID : 96234010737  
Option 1 ID : 96234042947  
Option 2 ID : 96234042945  
Option 3 ID : 96234042948  
Option 4 ID : 96234042946  
Status : Answered  
Chosen Option : 1

Q.7  
7 If  $\sin \Theta = 15/17$ , then  $\cot \Theta = ?$

- Ans
- ✓ 1.  $\frac{8}{15}$
  - ✗ 2.  $\frac{15}{8}$
  - ✗ 3.  $\frac{8}{17}$
  - ✗ 4.  $\frac{17}{15}$

Question ID : 96234010741

Option 1 ID : 96234042962

Option 2 ID : 96234042961

Option 3 ID : 96234042963

Option 4 ID : 96234042964

Status : Answered

Chosen Option : 1

Q.7  
8 In angular measurements, one radian is equivalent to \_\_\_\_\_ degrees (approximately).

- Ans
- ✗ 1. 180
  - ✗ 2. 90
  - ✗ 3. 65.27
  - ✓ 4. 57.27

Question ID : 96234010687

Option 1 ID : 96234042745

Option 2 ID : 96234042746

Option 3 ID : 96234042748

Option 4 ID : 96234042747

Status : Answered

Chosen Option : 4

Q.7  
9  $\sec 45^\circ - \tan 60^\circ = ?$

- Ans
- ✓ 1.  $-\sqrt{3} + \sqrt{2}$
  - ✗ 2.  $\frac{\sqrt{3}}{2}$
  - ✗ 3.  $-\sqrt{3} - \sqrt{2}$
  - ✗ 4.  $\sqrt{3} + \sqrt{2}$

Question ID : 96234010740

Option 1 ID : 96234042958

Option 2 ID : 96234042959

Option 3 ID : 96234042960

Option 4 ID : 96234042957

Status : Answered

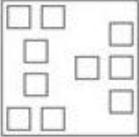
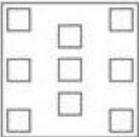
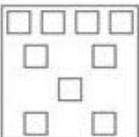
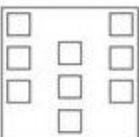
Chosen Option : 1

Q.8  
0 Substances that are broken down by biological processes are said to be \_\_\_\_\_.

- Ans
- 1. non-reusable
  - 2. non-biodegradable
  - 3. biodegradable
  - 4. reusable

Question ID : 96234010689  
Option 1 ID : 96234042756  
Option 2 ID : 96234042753  
Option 3 ID : 96234042755  
Option 4 ID : 96234042754  
Status : Answered  
Chosen Option : 4

Q.8  
1 Choose the figure that is different from the rest.

- Ans
- 1. 
  - 2. 
  - 3. 
  - 4. 

Question ID : 96234010770  
Option 1 ID : 96234043080  
Option 2 ID : 96234043078  
Option 3 ID : 96234043079  
Option 4 ID : 96234043077  
Status : Answered  
Chosen Option : 1

Q.8  
2 If '+' represents '×', '-' represents '+', '×' represents '÷' and '÷' represents '-', then find the value of the following expression.  
 $9 \times 3 + 6 \div 2 = ?$

- Ans
- 1. 20
  - 2. 12
  - 3. 10
  - 4. 16

Question ID : 96234010756

Option 1 ID : 96234043024

Option 2 ID : 96234043022

Option 3 ID : 96234043021

Option 4 ID : 96234043023

Status : Answered

Chosen Option : 4

Q.8 A salesperson starts from his office and drives 2 km east, then turns north and drives 7 km, then turns to his right and drives 6 km, then turns south and drives 7 km. Where is he now with respect to his starting position?

- Ans
- 1. 8 km east
  - 2. 4 km east
  - 3. 8 km west
  - 4. 4 km west

Question ID : 96234010772

Option 1 ID : 96234043085

Option 2 ID : 96234043087

Option 3 ID : 96234043086

Option 4 ID : 96234043088

Status : Answered

Chosen Option : 1

Q.8 Identify the material having high coefficient of volume expansion.

- Ans
- 1. Water
  - 2. Brass
  - 3. Alcohol
  - 4. Glass

Question ID : 96234010700

Option 1 ID : 96234042798

Option 2 ID : 96234042800

Option 3 ID : 96234042797

Option 4 ID : 96234042799

Status : Not Answered

Chosen Option : --

Q.8 किसी सामग्री के \_\_\_\_\_ का मान जितना अधिक होगा, उतनी ही तेजी से यह ऊष्मा को संचालित करेगा।

- Ans
- 1. रिजिलेशन (दबाव में पिघलाना)
  - 2. ऊष्मीय चालकता
  - 3. गलनांक
  - 4. गुप्त ऊष्मा

Question ID : 96234010704

Option 1 ID : 96234042816

Option 2 ID : 96234042814

Option 3 ID : 96234042813

Option 4 ID : 96234042815

Status : Answered

Chosen Option : 4

Q.8 If G + H means G is daughter of H, G - H means G is sister H and G \* H means G is husband of H, which of the following shows that I is the daughter of H?

- Ans
- 1. I - J + F \* H
  - 2. I \* J - F + H
  - 3. I + J - F \* H
  - 4. I - J \* F + H

Question ID : 96234010759

Option 1 ID : 96234043034

Option 2 ID : 96234043033

Option 3 ID : 96234043035

Option 4 ID : 96234043036

Status : Answered

Chosen Option : 1

Q.8 If a machine overcomes a load 'L' and the distance travelled by the load is 'Ld', the work done by the load will be \_\_\_\_\_.

- Ans
- 1.  $L \times Ld$
  - 2.  $\frac{L}{Ld}$
  - 3.  $\frac{1}{L \times Ld}$
  - 4.  $\frac{Ld}{L}$

Question ID : 96234010710

Option 1 ID : 96234042840

Option 2 ID : 96234042837

Option 3 ID : 96234042838

Option 4 ID : 96234042839

Status : Not Answered

Chosen Option : --

Q.8 यदि किसी पिंड का विशिष्ट गुरुत्वाकर्षण 1 से कम है, तो यह \_\_\_\_\_ में/पर तैरने लगेगा।

- Ans
- 1. पारा (मरकरी)
  - 2. द्रव
  - 3. हवा
  - 4. पानी

Question ID : 96234010693

Option 1 ID : 96234042769

Option 2 ID : 96234042772

Option 3 ID : 96234042770

Option 4 ID : 96234042771

Status : Answered

Chosen Option : 4

Q.8 A source of voltage V maintains a current i in a circuit. The energy supplied to the circuit by the source in time t is

- Ans
- 1.  $1/Vit$
  - 2.  $Vi/t$

3. V/it

4. Vit

Question ID : 96234010721

Option 1 ID : 96234042884

Option 2 ID : 96234042883

Option 3 ID : 96234042882

Option 4 ID : 96234042881

Status : Answered

Chosen Option : 4

Q.9  
0 JPEG stands for \_\_\_\_\_.

Ans  1. Joint Photographic Experts Group

2. Joint Program Executing Group

3. Joint Program Experts Group

4. Joint Program Experimental Group

Question ID : 96234010708

Option 1 ID : 96234042830

Option 2 ID : 96234042832

Option 3 ID : 96234042829

Option 4 ID : 96234042831

Status : Not Answered

Chosen Option : --

Q.9 नीचे एक वक्तव्य और दो अनुमान I और II दिए गए हैं। आपको तय करना है कि कौनसा/से अनुमान वक्तव्य के अनुसार तार्किकतः सही है/हैं।

वक्तव्य: धूप में मनुष्य शरीर विटामिन D उत्पन्न करता है।

अनुमान I: भोजन द्वारा प्राप्त न करने पर भी मनुष्य शरीर में विटामिन D होगा।

अनुमान II: वैश्विक जनसंख्या का एक बड़ा हिस्सा विटामिन D की कमी से ग्रस्त है।

Ans  1. केवल अनुमान I सही है

2. अनुमान I और अनुमान II दोनों सही है दोनों

3. केवल अनुमान II सही है

4. न अनुमान I सही है न अनुमान II

Question ID : 96234010774

Option 1 ID : 96234043093

Option 2 ID : 96234043095

Option 3 ID : 96234043094

Option 4 ID : 96234043096

Status : Answered

Chosen Option : 1

Q.9  
2

You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question: What was the discount percent offered on the soap by the store?

Statements:

- I) The store is giving 1 soap free on purchase of three.  
II) ₹10 discount is offered on purchase of soap worth ₹36.

- Ans
- 1. I alone is sufficient while II alone is not sufficient
  - 2. II alone is sufficient while I alone is not sufficient
  - 3. Neither I nor II is sufficient
  - 4. Either I or II is sufficient

Question ID : 96234010765  
Option 1 ID : 96234043057  
Option 2 ID : 96234043058  
Option 3 ID : 96234043060  
Option 4 ID : 96234043059  
Status : Not Answered  
Chosen Option : --

Q.9  
3 86°F is equal to \_\_\_\_\_ .

- Ans
- 1. 10°C
  - 2. 20°C
  - 3. 34°C
  - 4. 30°C

Question ID : 96234010702  
Option 1 ID : 96234042805  
Option 2 ID : 96234042806  
Option 3 ID : 96234042808  
Option 4 ID : 96234042807  
Status : Answered  
Chosen Option : 4

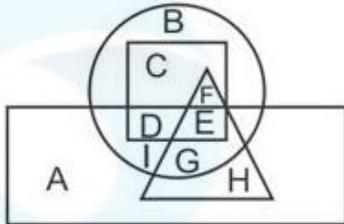
Q.9  
4 If  $x = \sqrt{125} \times \sqrt{30} \times \sqrt{6}$ , then x is equal to:

- Ans
- 1. 136
  - 2. 175
  - 3. 150
  - 4. 125

Question ID : 96234010747  
Option 1 ID : 96234042988  
Option 2 ID : 96234042987  
Option 3 ID : 96234042986  
Option 4 ID : 96234042985  
Status : Answered  
Chosen Option : 3

Q.9  
5

In the following figure, square represents Chinese, triangle represents dancers, circle represents male and rectangle represents architects. Which set of letters represents dancers who are male?



- Ans
- 1. IGH
  - 2. DEF
  - 3. GEF
  - 4. DEIG

Question ID : 96234010763

Option 1 ID : 96234043052

Option 2 ID : 96234043051

Option 3 ID : 96234043050

Option 4 ID : 96234043049

Status : Answered

Chosen Option : 3

Q.9 A body starts from rest. Its displacement is proportional to \_\_\_\_\_ when its acceleration is constant.

6

- Ans
- 1. velocity
  - 2. time squared
  - 3. time
  - 4. work

Question ID : 96234010718

Option 1 ID : 96234042872

Option 2 ID : 96234042869

Option 3 ID : 96234042870

Option 4 ID : 96234042871

Status : Answered

Chosen Option : 2

Q.9 समुद्र के पानी के स्तर का बढ़ना और घटना मुख्य रूप से घूमती हुई पृथ्वी पर \_\_\_\_\_ के गुरुत्वाकर्षण प्रभाव के कारण होता है।

7

- Ans
- 1. बुध ग्रह
  - 2. चन्द्रमा
  - 3. सूर्य
  - 4. शुक्र

Question ID : 96234010688

Option 1 ID : 96234042751

Option 2 ID : 96234042752

Option 3 ID : 96234042749  
Option 4 ID : 96234042750  
Status : Answered  
Chosen Option : 2

Q.9 1 kg वजन वाले गेंद की गति को 2 m/s से बढ़ाकर 4 m/s करने के लिए किस तरह के कार्य को करने की आवश्यकता होती है?

8

- Ans
- 1. 6 J
  - 2. 12 J
  - 3. 8 J
  - 4. 10 J

Question ID : 96234010690  
Option 1 ID : 96234042757  
Option 2 ID : 96234042760  
Option 3 ID : 96234042758  
Option 4 ID : 96234042759  
Status : Answered  
Chosen Option : 1

Q.9 Given below are some letters, that each of these letters has a corresponding number. Select the combination of numbers from the options so that the jumbled letters arranged accordingly will form a meaningful English word.

9

HTRUOA  
1 2 3 4 5 6

- Ans
- 1. 6,4,2,1,5,3
  - 2. 1,6,2,4,5,3
  - 3. 3,4,5,2,1,6
  - 4. 2,1,5,3,4,6

Question ID : 96234010761  
Option 1 ID : 96234043044  
Option 2 ID : 96234043041  
Option 3 ID : 96234043043  
Option 4 ID : 96234043042  
Status : Not Answered  
Chosen Option : --

Q.1 Name the painter of the famous painting, 'Mahishasura'.

00

- Ans
- 1. Tyeb Mehta
  - 2. Amrita Sher-Gil
  - 3. Raja Ravi Verma
  - 4. MF Hussain

Question ID : 96234010679  
Option 1 ID : 96234042716  
Option 2 ID : 96234042713  
Option 3 ID : 96234042714  
Option 4 ID : 96234042715  
Status : Not Answered  
Chosen Option : --

Section : Mechanic Radio and TV

Q.1 In a microprocessor, which is the register that always holds the result of an operation?

- Ans
- 1. Instruction register
  - 2. Accumulator
  - 3. Buffer
  - 4. Data bus

Question ID : 96234010850  
Option 1 ID : 96234043397  
Option 2 ID : 96234043399  
Option 3 ID : 96234043400  
Option 4 ID : 96234043398  
Status : Answered  
Chosen Option : 3

Q.2 Which stage in an AM transmitter is also known as Harmonic Generator?

- Ans
- 1. Power amplifier
  - 2. Carrier oscillator
  - 3. Frequency multiplier
  - 4. AFC circuit

Question ID : 96234010826  
Option 1 ID : 96234043302  
Option 2 ID : 96234043301  
Option 3 ID : 96234043303  
Option 4 ID : 96234043304  
Status : Answered  
Chosen Option : 3

Q.3 Which of the following types of microphone requires an external power source to operate?

- Ans
- 1. Condenser microphone
  - 2. Paper microphone
  - 3. Dynamic microphone
  - 4. Ribbon microphone

Question ID : 96234010809  
Option 1 ID : 96234043234  
Option 2 ID : 96234043236  
Option 3 ID : 96234043233  
Option 4 ID : 96234043235  
Status : Not Answered  
Chosen Option : --

Q.4 A bridge rectifier receives its input from a 4: 1 step down transformer connected 220 V AC. Identify the PIV of the bridge rectifier from the given options.

- Ans
- 1. 55 V
  - 2. 141.4 V

3. 77.7 V

4. 63.6 V

Question ID : 96234010793

Option 1 ID : 96234043169

Option 2 ID : 96234043172

Option 3 ID : 96234043171

Option 4 ID : 96234043170

Status : Answered

Chosen Option : 2

Q.5 In satellite communication, the downlink frequency is always \_\_\_\_\_ the uplink frequency.

Ans  1. equal to

2. independent of

3. higher than

4. lower than

Question ID : 96234010829

Option 1 ID : 96234043315

Option 2 ID : 96234043316

Option 3 ID : 96234043314

Option 4 ID : 96234043313

Status : Answered

Chosen Option : 4

Q.6 Identify the features of CC configuration from the options given below.

Ans  1. Highest input impedance and highest current gain.

2. Highest input impedance and highest voltage gain.

3. Lowest input impedance and lowest voltage gain.

4. Lowest input impedance and highest voltage gain.

Question ID : 96234010797

Option 1 ID : 96234043187

Option 2 ID : 96234043185

Option 3 ID : 96234043188

Option 4 ID : 96234043186

Status : Not Answered

Chosen Option : --

Q.7 TV remote controls commonly use \_\_\_\_\_ to communicate with the TV.

Ans  1. a laser diode

2. Bluetooth transmitter

3. Infrared LED

4. UV transmitter

Question ID : 96234010841

Option 1 ID : 96234043362

Option 2 ID : 96234043364

Option 3 ID : 96234043361  
Option 4 ID : 96234043363  
Status : Answered  
Chosen Option : 3

Q.8 When the communication allows simultaneous talking and listening by two parties over the same channel, it is called \_\_\_\_\_.

- Ans
- 1. full duplex
  - 2. simplex
  - 3. biphlex
  - 4. half duplex

Question ID : 96234010811  
Option 1 ID : 96234043242  
Option 2 ID : 96234043241  
Option 3 ID : 96234043244  
Option 4 ID : 96234043243  
Status : Answered  
Chosen Option : 1

Q.9 The value of the first IF in double conversion FM Radio receivers is \_\_\_\_\_.

- Ans
- 1. 108 MHz
  - 2. 10.7 MHz
  - 3. 470 kHz
  - 4. 455 kHz

Question ID : 96234010821  
Option 1 ID : 96234043284  
Option 2 ID : 96234043283  
Option 3 ID : 96234043282  
Option 4 ID : 96234043281  
Status : Not Answered  
Chosen Option : --

Q.10 Which of the following quantities is the same for the primary and secondary of a transformer?

- Ans
- 1. voltage
  - 2. phase
  - 3. frequency
  - 4. current

Question ID : 96234010785  
Option 1 ID : 96234043137  
Option 2 ID : 96234043140  
Option 3 ID : 96234043138  
Option 4 ID : 96234043139  
Status : Answered  
Chosen Option : 3

Q.11 An advantage of modulation is the use of \_\_\_\_\_.

- Ans
- 1. smaller antenna
  - 2. smaller circuit
  - 3. lower bandwidth
  - 4. lesser power

Question ID : 96234010814  
Option 1 ID : 96234043253  
Option 2 ID : 96234043254  
Option 3 ID : 96234043256  
Option 4 ID : 96234043255  
Status : Answered  
Chosen Option : 4

Q.1  
2 AM broadcast transmits \_\_\_\_\_

- Ans
- 1. Carrier and lower side band
  - 2. Only side bands
  - 3. Only carrier
  - 4. Both side bands and carrier

Question ID : 96234010824  
Option 1 ID : 96234043294  
Option 2 ID : 96234043296  
Option 3 ID : 96234043293  
Option 4 ID : 96234043295  
Status : Answered  
Chosen Option : 4

Q.1  
3 Two amplifiers each of gain 10 and 25 are cascaded. If the input voltage to the first amplifier is 10 mV, the output of the second stage will be \_\_\_\_\_.

- Ans
- 1. 25 V
  - 2. 2.5 V
  - 3. 125 V
  - 4. 100 V

Question ID : 96234010804  
Option 1 ID : 96234043215  
Option 2 ID : 96234043216  
Option 3 ID : 96234043214  
Option 4 ID : 96234043213  
Status : Not Answered  
Chosen Option : --

Q.1  
4 A series resonant circuit consists of a resistor of  $10\ \Omega$ , a capacitor of  $1\ \mu\text{F}$  and an inductor of  $1\ \text{mH}$ . What is the value of the current flowing through this circuit at resonance if the applied voltage is  $100\ \text{V AC}$ ?

- Ans
- 1. 100 mA
  - 2. 1 A
  - 3. 10 mA
  - 4. 10 A

Question ID : 96234010788

Option 1 ID : 96234043150  
Option 2 ID : 96234043151  
Option 3 ID : 96234043149  
Option 4 ID : 96234043152  
Status : Not Answered  
Chosen Option : --

Q.1  
5 What is the name of the device that have three terminals and two layers?

- Ans
- 1. NPN transistor
  - 2. UJT
  - 3. PNP transistor
  - 4. FET

Question ID : 96234010796  
Option 1 ID : 96234043184  
Option 2 ID : 96234043183  
Option 3 ID : 96234043181  
Option 4 ID : 96234043182  
Status : Answered  
Chosen Option : 4

Q.1  
6 In a mixer, which control determines the amount of signal to be sent to the right or left channels?

- Ans
- 1. Equaliser
  - 2. Filter
  - 3. PAN
  - 4. Treble

Question ID : 96234010833  
Option 1 ID : 96234043329  
Option 2 ID : 96234043330  
Option 3 ID : 96234043331  
Option 4 ID : 96234043332  
Status : Not Answered  
Chosen Option : --

Q.1  
7 In which part of a cell does oxidation take place?

- Ans
- 1. Anode
  - 2. Container
  - 3. Electrolyte
  - 4. Cathode

Question ID : 96234010780  
Option 1 ID : 96234043120  
Option 2 ID : 96234043119  
Option 3 ID : 96234043118  
Option 4 ID : 96234043117  
Status : Answered  
Chosen Option : 3

Q.1  
8 What are the speakers that handle the higher range of audio frequencies called?

- Ans
- 1. Tweeters
  - 2. Woofers
  - 3. Box speakers
  - 4. Bass speakers

Question ID : 96234010810  
Option 1 ID : 96234043239  
Option 2 ID : 96234043238  
Option 3 ID : 96234043237  
Option 4 ID : 96234043240  
Status : Answered  
Chosen Option : 2

Q.1  
9 Which of the following is NOT a topology of an SMPS?

- Ans
- 1. Forward converter
  - 2. Reverse converter
  - 3. AC to DC converter
  - 4. DC to DC converter

Question ID : 96234010807  
Option 1 ID : 96234043227  
Option 2 ID : 96234043228  
Option 3 ID : 96234043225  
Option 4 ID : 96234043226  
Status : Answered  
Chosen Option : 3

Q.2  
0 \_\_\_\_\_ is the input of detector stage?

- Ans
- 1. IF signal
  - 2. RF signal
  - 3. Audio signal
  - 4. carrier wave

Question ID : 96234010781  
Option 1 ID : 96234043124  
Option 2 ID : 96234043122  
Option 3 ID : 96234043121  
Option 4 ID : 96234043123  
Status : Answered  
Chosen Option : 2

Q.2  
1 The binary equivalent of the octal number 456 is \_\_\_\_\_.

- Ans
- 1. 100111101
  - 2. 100101110
  - 3. 101011110

4. 101001101

Question ID : 96234010844  
Option 1 ID : 96234043374  
Option 2 ID : 96234043373  
Option 3 ID : 96234043376  
Option 4 ID : 96234043375  
Status : Not Answered  
Chosen Option : --

Q.2  
2 The shape of the time base signal of a CRO is generally a \_\_\_\_\_.

- Ans
- 1. sine wave
  - 2. square wave
  - 3. triangle wave
  - 4. sawtooth wave

Question ID : 96234010830  
Option 1 ID : 96234043317  
Option 2 ID : 96234043318  
Option 3 ID : 96234043319  
Option 4 ID : 96234043320  
Status : Answered  
Chosen Option : 3

Q.2  
3 What is the function of a shunt resistor used for extending the range of an ammeter?

- Ans
- 1. To divide the additional voltage.
  - 2. To increase the meter resistance.
  - 3. To increase the PF.
  - 4. To bypass the additional current.

Question ID : 96234010790  
Option 1 ID : 96234043159  
Option 2 ID : 96234043157  
Option 3 ID : 96234043160  
Option 4 ID : 96234043158  
Status : Answered  
Chosen Option : 1

Q.2  
4 Identify the terminals in a three-point starter from the options given below.

- Ans
- 1. Line, field and armature terminals
  - 2. Line, NLR and armature terminals
  - 3. Line, field and NLR terminals
  - 4. NLR, field and armature terminals

Question ID : 96234010783  
Option 1 ID : 96234043129  
Option 2 ID : 96234043131  
Option 3 ID : 96234043130

Option 4 ID : 96234043132  
Status : Not Answered  
Chosen Option : --

Q.2  
5 If the \_\_\_\_\_ section in a TV has failed, the result is “No Sound, No Picture”.

- Ans
- 1. horizontal transistor
  - 2. vertical output
  - 3. sync separator
  - 4. IF output

Question ID : 96234010840  
Option 1 ID : 96234043359  
Option 2 ID : 96234043358  
Option 3 ID : 96234043360  
Option 4 ID : 96234043357  
Status : Answered  
Chosen Option : 3

Q.2  
6 A CRO displays a sine waveform which spans 3 cycles in 6 horizontal divisions. If the time base switch is set to 1 ms /div, what is the frequency of this signal which is being measured?

- Ans
- 1. 500 Hz
  - 2. 50 Hz
  - 3. 20 Hz
  - 4. 200 Hz

Question ID : 96234010831  
Option 1 ID : 96234043322  
Option 2 ID : 96234043321  
Option 3 ID : 96234043323  
Option 4 ID : 96234043324  
Status : Answered  
Chosen Option : 1

Q.2  
7 In a motor speed control using TRIAC and UJT, the potentiometer controls:

- Ans
- 1. the thyristor gate current
  - 2. the gate voltage in the thyristor circuit
  - 3. the frequency of the pulses from UJT
  - 4. the thyristor anode voltage

Question ID : 96234010823  
Option 1 ID : 96234043292  
Option 2 ID : 96234043290  
Option 3 ID : 96234043289  
Option 4 ID : 96234043291  
Status : Not Answered  
Chosen Option : --

Q.2  
8 In an AM with  $m=1$ , the power in one sideband is:

Ans

- 1. one-fourth of the total power
- 2. the same as the total power
- 3. three-fourth of the total power
- 4. one-tenth of the total power

Question ID : 96234010815  
Option 1 ID : 96234043259  
Option 2 ID : 96234043257  
Option 3 ID : 96234043260  
Option 4 ID : 96234043258  
Status : Answered  
Chosen Option : 2

Q.2  
9 Reception of a station in a wrong position is caused by \_\_\_\_\_

- Ans
- 1. Defective gang condenser
  - 2. Misalignment of I.F.T
  - 3. Misalignment of antenna coil
  - 4. Oscillator coil

Question ID : 96234010801  
Option 1 ID : 96234043204  
Option 2 ID : 96234043203  
Option 3 ID : 96234043201  
Option 4 ID : 96234043202  
Status : Not Answered  
Chosen Option : --

Q.3  
0 When a transistor is biased such that its Base current is greater than zero and its collector-to-emitter voltage is less than 0.2 V, it is operating in the \_\_\_\_\_ region.

- Ans
- 1. cut-off
  - 2. active
  - 3. breakdown
  - 4. saturation

Question ID : 96234010798  
Option 1 ID : 96234043189  
Option 2 ID : 96234043190  
Option 3 ID : 96234043192  
Option 4 ID : 96234043191  
Status : Not Answered  
Chosen Option : --

Q.3  
1 \_\_\_\_\_ is the digital 2-input logic gate whose output is HIGH only when both its inputs are the same.

- Ans
- 1. EX OR Gate
  - 2. EX NOR Gate
  - 3. AND gate
  - 4. NAND Gate

Question ID : 96234010846

Option 1 ID : 96234043383

Option 2 ID : 96234043384

Option 3 ID : 96234043381

Option 4 ID : 96234043382

Status : Answered

Chosen Option : 3

Q.3 Which component in a TV is responsible for generating the high voltage sawtooth signals at a relatively high frequency?

2

Ans  1. Fly back transformer

2. UPS transformer

3. SMPS transformer

4. Isolation transformer

Question ID : 96234010836

Option 1 ID : 96234043342

Option 2 ID : 96234043343

Option 3 ID : 96234043341

Option 4 ID : 96234043344

Status : Not Answered

Chosen Option : --

Q.3 The geostationary orbit is \_\_\_\_\_ km away from the surface of the earth.

3

Ans  1. 36,000

2. 2,950

3. 38,000

4. 2,200

Question ID : 96234010827

Option 1 ID : 96234043307

Option 2 ID : 96234043306

Option 3 ID : 96234043308

Option 4 ID : 96234043305

Status : Answered

Chosen Option : 4

Q.3 When simplified, the Boolean expression  $A+AB$  results in \_\_\_\_\_.

4

Ans  1. B

2.  $A+1$

3. AB

4. A

Question ID : 96234010845

Option 1 ID : 96234043378

Option 2 ID : 96234043380

Option 3 ID : 96234043379

Option 4 ID : 96234043377

Status : Not Answered

Chosen Option : --

Q.3 In a PA system, a \_\_\_\_ is used to adjust the amplitude of different frequencies to achieve the desired quality of sound output.

- Ans
- 1. amplifier
  - 2. filter
  - 3. attenuator
  - 4. equaliser

Question ID : 96234010805  
Option 1 ID : 96234043218  
Option 2 ID : 96234043220  
Option 3 ID : 96234043217  
Option 4 ID : 96234043219  
Status : Answered  
Chosen Option : 1

Q.3 The conductive coating on the outer surface of a picture tube is called \_\_\_\_.

- Ans
- 1. metal primer
  - 2. liquid conductor
  - 3. Aquadag
  - 4. enamel

Question ID : 96234010837  
Option 1 ID : 96234043347  
Option 2 ID : 96234043348  
Option 3 ID : 96234043346  
Option 4 ID : 96234043345  
Status : Answered  
Chosen Option : 1

Q.3 A DVD uses the \_\_\_\_ method to store and read data.

- Ans
- 1. optical
  - 2. electrical
  - 3. magnetic
  - 4. Hall effect

Question ID : 96234010843  
Option 1 ID : 96234043371  
Option 2 ID : 96234043370  
Option 3 ID : 96234043369  
Option 4 ID : 96234043372  
Status : Answered  
Chosen Option : 2

Q.3 \_\_\_\_\_ electrons flow every second in ten amperes of current.

- Ans
- 1.  $31.4 \times 10^8$
  - 2.  $62.4 \times 10^8$

3.  $31.4 \times 10^{18}$

4.  $62.4 \times 10^{18}$

Question ID : 96234010776

Option 1 ID : 96234043101

Option 2 ID : 96234043104

Option 3 ID : 96234043102

Option 4 ID : 96234043103

Status : Answered

Chosen Option : 3

Q.3  
9 A 3.1 sound system has \_\_\_\_\_.

Ans  1. 3 speakers and one tweeter

2. only 3 speakers

3. bass, treble, and speaker

4. 3 speakers and one subwoofer

Question ID : 96234010832

Option 1 ID : 96234043326

Option 2 ID : 96234043325

Option 3 ID : 96234043328

Option 4 ID : 96234043327

Status : Answered

Chosen Option : 4

Q.4  
0 Why FM is popular compared to the AM \_\_\_\_\_.

Ans  1. Easier to generate and detect

2. Requires simple transmission and reception equipment's

3. Less sensitivity to noise

4. Occupies less band width

Question ID : 96234010803

Option 1 ID : 96234043211

Option 2 ID : 96234043210

Option 3 ID : 96234043212

Option 4 ID : 96234043209

Status : Answered

Chosen Option : 2

Q.4  
1 \_\_\_\_\_ is used to describe information about the hue and saturation of a colour.

Ans  1. Chrominance

2. Luminance

3. Contrast

4. Intensity

Question ID : 96234010839

Option 1 ID : 96234043354  
Option 2 ID : 96234043353  
Option 3 ID : 96234043356  
Option 4 ID : 96234043355  
Status : Answered  
Chosen Option : 1

Q.4 In an AM radio receiver, for an RF signal of 1545 kHz, the value of the local oscillator frequency will be \_\_\_\_\_.

2

- Ans
- 1. 2,000 kHz
  - 2. 455 kHz
  - 3. 1,455 kHz
  - 4. 2,455 kHz

Question ID : 96234010818  
Option 1 ID : 96234043271  
Option 2 ID : 96234043269  
Option 3 ID : 96234043270  
Option 4 ID : 96234043272  
Status : Not Answered  
Chosen Option : --

Q.4 Which type of memory needs to be regularly refreshed?

3

- Ans
- 1. DRAM
  - 2. ROM
  - 3. SRAM
  - 4. CMOS

Question ID : 96234010848  
Option 1 ID : 96234043389  
Option 2 ID : 96234043391  
Option 3 ID : 96234043390  
Option 4 ID : 96234043392  
Status : Answered  
Chosen Option : 1

Q.4 In a common-anode seven-segment display, what will be displayed if all the seven data inputs are at logic "0"?

4

- Ans
- 1. 8
  - 2. 2
  - 3. 4
  - 4. 0

Question ID : 96234010849  
Option 1 ID : 96234043396  
Option 2 ID : 96234043394  
Option 3 ID : 96234043395  
Option 4 ID : 96234043393  
Status : Answered  
Chosen Option : 4

Q.4

5 What is the full form of DTS?

- Ans
- 1. Digital Transmission Systems Format for Video
  - 2. Digital Theatre Systems Format for Video
  - 3. Digital Theatre Systems Format for Audio
  - 4. Direct Transmission for Satellite Services

Question ID : 96234010834  
Option 1 ID : 96234043334  
Option 2 ID : 96234043336  
Option 3 ID : 96234043335  
Option 4 ID : 96234043333  
Status : Answered  
Chosen Option : 4

Q.4 Which one of the following does NOT affect the value of the capacitance of a parallel plate capacitor?

6

- Ans
- 1. Distance between the plates
  - 2. Voltage applied to the capacitor
  - 3. Surface area of the plates
  - 4. Permittivity of the dielectric used

Question ID : 96234010787  
Option 1 ID : 96234043145  
Option 2 ID : 96234043148  
Option 3 ID : 96234043146  
Option 4 ID : 96234043147  
Status : Answered  
Chosen Option : 3

Q.4 The IC CA810 can be used as power amplifier in many applications. Which is the circuit this IC cannot be used?

7

- Ans
- 1. Radio receiver and tape recorders
  - 2. Television receivers
  - 3. Small PA systems
  - 4. Power driving circuits

Question ID : 96234010789  
Option 1 ID : 96234043153  
Option 2 ID : 96234043154  
Option 3 ID : 96234043155  
Option 4 ID : 96234043156  
Status : Not Answered  
Chosen Option : --

Q.4 The band width of an A.M radio receiver?

8

- Ans
- 1. 10KHz
  - 2. 1KHz
  - 3. 5MHz

4. 20 KHz

Question ID : 96234010777

Option 1 ID : 96234043106

Option 2 ID : 96234043108

Option 3 ID : 96234043107

Option 4 ID : 96234043105

Status : Answered

Chosen Option : 3

Q.4 In an Op-Amp voltage regulator, the regulating element is connected:

- Ans  1. in series with the load  
 2. in series with the Zener diode  
 3. across the Zener diode  
 4. across the load

Question ID : 96234010806

Option 1 ID : 96234043221

Option 2 ID : 96234043223

Option 3 ID : 96234043224

Option 4 ID : 96234043222

Status : Answered

Chosen Option : 4

Q.5 Which of the following input conditions of an RS flip flop will result in an SET condition at the output?

- Ans  1. R= 0, S=0  
 2. R= 1, S=0  
 3. R= 0, S=1  
 4. R= 1, S=1

Question ID : 96234010847

Option 1 ID : 96234043385

Option 2 ID : 96234043387

Option 3 ID : 96234043386

Option 4 ID : 96234043388

Status : Not Answered

Chosen Option : --

Q.5 An ideal 220 VA step-down transformer is connected to a 220 V supply in the primary. If its turns ratio is 4:1, then the value of the secondary current will be \_\_\_\_\_.

- Ans  1. 11 A  
 2. 4 A  
 3. 22 A  
 4. 1 A

Question ID : 96234010784

Option 1 ID : 96234043135

Option 2 ID : 96234043134

Option 3 ID : 96234043136

Option 4 ID : 96234043133

Status : Answered  
Chosen Option : 4

Q.5 Which type of loss can be reduced in a transformer by increasing the diameter of the conductor?

2

- Ans
- 1. Hysteresis loss
  - 2. Magnetic loss
  - 3. Copper loss
  - 4. Eddy current loss

Question ID : 96234010786  
Option 1 ID : 96234043142  
Option 2 ID : 96234043144  
Option 3 ID : 96234043141  
Option 4 ID : 96234043143  
Status : Answered  
Chosen Option : 3

Q.5 The wavelength of the laser used in a DVD player is \_\_\_\_\_.

3

- Ans
- 1. 820 nm
  - 2. 540 nm
  - 3. 780 nm
  - 4. 650 nm

Question ID : 96234010842  
Option 1 ID : 96234043368  
Option 2 ID : 96234043365  
Option 3 ID : 96234043367  
Option 4 ID : 96234043366  
Status : Not Answered  
Chosen Option : --

Q.5 The regenerative process where the collector junction temperature increases the collector current and vice versa is called \_\_\_\_\_.

4

- Ans
- 1. temperature stability
  - 2. positive feedback
  - 3. oscillation
  - 4. thermal runaway

Question ID : 96234010799  
Option 1 ID : 96234043196  
Option 2 ID : 96234043194  
Option 3 ID : 96234043193  
Option 4 ID : 96234043195  
Status : Answered  
Chosen Option : 1

Q.5 Which of the following statements is **TRUE** in case of filters used with rectifiers?

5

- Ans
- 1.

Capacitors and inductors are both connected in series with the output.

2.

Capacitors and inductors are both connected in shunt with the output.

3.

Capacitors are connected in series and inductors in shunt with the output.

4.

Capacitors are connected in shunt and inductors in series with the output.

Question ID : 96234010794

Option 1 ID : 96234043176

Option 2 ID : 96234043175

Option 3 ID : 96234043173

Option 4 ID : 96234043174

Status : Answered

Chosen Option : 2

Q.5 In television, one half of horizontal pixels rows are refreshed in one cycle and the other half in the next cycle. This process is known as \_\_\_\_\_.

6

Ans  1. sequential scanning

2. alternate scanning

3. interlaced scanning

4. differential scanning

Question ID : 96234010835

Option 1 ID : 96234043337

Option 2 ID : 96234043338

Option 3 ID : 96234043340

Option 4 ID : 96234043339

Status : Not Answered

Chosen Option : --

Q.5 Which one of the following is referred to as a free one-shot circuit?

7

Ans  1. Schmitt trigger

2. Monostable multivibrator

3. Astable multivibrator

4. Bistable multivibrator

Question ID : 96234010813

Option 1 ID : 96234043252

Option 2 ID : 96234043250

Option 3 ID : 96234043249

Option 4 ID : 96234043251

Status : Answered

Chosen Option : 2

Q.5 Why crystal receiver has poor selectivity?

8

Ans  1. No loud speaker is used

- 2. No battery is used
- 3. it has long antenna
- 4. No tuned circuit is used

Question ID : 96234010782  
Option 1 ID : 96234043127  
Option 2 ID : 96234043126  
Option 3 ID : 96234043128  
Option 4 ID : 96234043125  
Status : Answered  
Chosen Option : 4

Q.5  
9 In Silicon Controlled Rectifier (SCR):

- Ans
- 1. holding current > latching current
  - 2. holding current < latching current
  - 3. holding current = latching current
  - 4. holding current =  $0.6 \text{ V} / \text{forward resistance}$

Question ID : 96234010822  
Option 1 ID : 96234043286  
Option 2 ID : 96234043287  
Option 3 ID : 96234043285  
Option 4 ID : 96234043288  
Status : Answered  
Chosen Option : 1

Q.6  
0 \_\_\_\_\_ coupling is a way to provide impedance matching in the AF amplifiers.

- Ans
- 1. Resistive
  - 2. RC
  - 3. Direct
  - 4. Transformer

Question ID : 96234010802  
Option 1 ID : 96234043205  
Option 2 ID : 96234043206  
Option 3 ID : 96234043207  
Option 4 ID : 96234043208  
Status : Answered  
Chosen Option : 3

Q.6  
1 One of the criteria for oscillations to occur in an amplifier is that:

- Ans
- 1. the amplifier must have a variable power supply
  - 2. the loop gain must be slightly greater than unity
  - 3. the amplifier must be in the cut-off state
  - 4. the amplifier output impedance must be zero

Question ID : 96234010812  
Option 1 ID : 96234043245  
Option 2 ID : 96234043248  
Option 3 ID : 96234043246  
Option 4 ID : 96234043247  
Status : Not Answered  
Chosen Option : --

Q.6  
2 The basic components of an optocoupler are \_\_\_\_\_.

- Ans
- 1. LED and phototransistor
  - 2. LED and LDR
  - 3. crystal and LDR
  - 4. photodiode and crystal

Question ID : 96234010825  
Option 1 ID : 96234043299  
Option 2 ID : 96234043300  
Option 3 ID : 96234043298  
Option 4 ID : 96234043297  
Status : Answered  
Chosen Option : 2

Q.6  
3 If the height of an antenna increases, the angle of radiation \_\_\_\_\_

- Ans
- 1. Increases
  - 2. Becomes a zero
  - 3. Does not change
  - 4. Decreases

Question ID : 96234010808  
Option 1 ID : 96234043230  
Option 2 ID : 96234043231  
Option 3 ID : 96234043232  
Option 4 ID : 96234043229  
Status : Answered  
Chosen Option : 4

Q.6  
4 In a transistor, identify the terminal with the highest doping from the options given below.

- Ans
- 1. Intrinsic zone
  - 2. Emitter
  - 3. Collector
  - 4. Base

Question ID : 96234010795  
Option 1 ID : 96234043180  
Option 2 ID : 96234043177  
Option 3 ID : 96234043179  
Option 4 ID : 96234043178  
Status : Not Answered  
Chosen Option : --

Q.6 When two resistors of equal value are connected across a 220 V DC supply, the current through each resistor is 1 A.  
5 Find the colour code of the resistors.

- Ans
- 1. Brown, Black, Red
  - 2. Red, Red, Red
  - 3. Black, Brown, Red
  - 4. Red, Red, Brown

Question ID : 96234010778  
Option 1 ID : 96234043111  
Option 2 ID : 96234043112  
Option 3 ID : 96234043109  
Option 4 ID : 96234043110  
Status : Not Answered  
Chosen Option : --

Q.6 If a receiver is able to detect and amplify even very weak signals, its \_\_\_\_\_ considered to be very good.  
6

- Ans
- 1. fidelity
  - 2. selectivity
  - 3. bandwidth
  - 4. sensitivity

Question ID : 96234010820  
Option 1 ID : 96234043277  
Option 2 ID : 96234043278  
Option 3 ID : 96234043280  
Option 4 ID : 96234043279  
Status : Answered  
Chosen Option : 4

Q.6 According to Kirchoff's current law,:  
7

- Ans
- 1.  
the sum of the currents entering a node = the sum of the currents leaving the node
  - 2. the sum of the potential differences across all elements = 0
  - 3.  
the total current is directly proportional to the applied voltage
  - 4. the sum total of all the currents in a loop = 0

Question ID : 96234010779  
Option 1 ID : 96234043113  
Option 2 ID : 96234043115  
Option 3 ID : 96234043116  
Option 4 ID : 96234043114  
Status : Answered  
Chosen Option : 1

Q.6 Which of the following is NOT a type of wireless communication technology?  
8

- Ans
- 1. Satellite communication

- 2. OFC communication
- 3. Bluetooth communication
- 4. Infrared communication

Question ID : 96234010828  
Option 1 ID : 96234043309  
Option 2 ID : 96234043312  
Option 3 ID : 96234043310  
Option 4 ID : 96234043311  
Status : Answered  
Chosen Option : 2

Q.6  
9 A discriminator is basically a \_\_\_\_\_.

- Ans
- 1. Wein bridge oscillator
  - 2. AM modulator
  - 3. FM detector
  - 4. RS flip flop

Question ID : 96234010816  
Option 1 ID : 96234043261  
Option 2 ID : 96234043263  
Option 3 ID : 96234043262  
Option 4 ID : 96234043264  
Status : Answered  
Chosen Option : 4

Q.7  
0 In wave propagation, fading refers to:

- Ans
- 1. the reduction in signal strength
  - 2. the changing of the colour
  - 3. the shifting of frequency
  - 4. the changing of the wavelength

Question ID : 96234010817  
Option 1 ID : 96234043268  
Option 2 ID : 96234043265  
Option 3 ID : 96234043267  
Option 4 ID : 96234043266  
Status : Answered  
Chosen Option : 4

Q.7  
1 The bandwidth of a TV channel in India is \_\_\_\_\_.

- Ans
- 1. 7 MHz
  - 2. 10.8 MHz
  - 3. 5.5 MHz
  - 4. 15 MHz

Question ID : 96234010838

Option 1 ID : 96234043350

Option 2 ID : 96234043351

Option 3 ID : 96234043349

Option 4 ID : 96234043352

Status : Answered

Chosen Option : 3

Q.7  
2 In an FM radio receiver, which section uses the limiter circuit at its input?

- Ans
- 1. AGC
  - 2. Detector
  - 3. AF amplifier
  - 4. Mixer

Question ID : 96234010819

Option 1 ID : 96234043274

Option 2 ID : 96234043275

Option 3 ID : 96234043276

Option 4 ID : 96234043273

Status : Not Answered

Chosen Option : --

Q.7  
3 What is a wave trap?

- Ans
- 1. Low pass filter
  - 2. High pass filter
  - 3. Wide band amplifier
  - 4. Resonance circuit

Question ID : 96234010791

Option 1 ID : 96234043162

Option 2 ID : 96234043163

Option 3 ID : 96234043164

Option 4 ID : 96234043161

Status : Not Answered

Chosen Option : --

Q.7  
4 In a direct-coupled amplifier, the gain falls at high frequencies mainly due to \_\_\_\_\_.

- Ans
- 1. Stray capacitances
  - 2. Filtering issues
  - 3. Coupling capacitors
  - 4. Power supply

Question ID : 96234010800

Option 1 ID : 96234043198

Option 2 ID : 96234043200

Option 3 ID : 96234043197

Option 4 ID : 96234043199

Status : Answered

Chosen Option : 3

Q.7  
5 What will happen to the output voltage in a series regulator, when temperature increases?

- Ans
- 1. Equals input voltage
  - 2. Increases
  - 3. Decreases
  - 4. Remain constant

Question ID : 96234010792

Option 1 ID : 96234043168

Option 2 ID : 96234043166

Option 3 ID : 96234043165

Option 4 ID : 96234043167

Status : Answered

Chosen Option : 4