



# RAILWAY RECRUITMENT BOARDS

## रेलवे भर्ती बोर्ड

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

Roll No:	311024079980269
Participants Name:	MD LAYEEQUE UR REHMAN
Test Center Name:	iON Digital Zone IDZ Powai
Test Date:	21/01/2019
Test Time:	4:30 PM - 7:00 PM
Subject:	<b>Part A and Exam Trade : Electronics Mechanic</b>

- 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** A black surface absorbs \_\_\_\_\_ as compared to a white surface, under identical conditions.

- Ans
- ☒ 1. same heat
  - ☒ 2. more heat
  - ☐ 3. negligible heat
  - ☐ 4. lesser heat

Question ID : **2134098938**  
 Option 1 ID : **21340935750**  
 Option 2 ID : **21340935751**  
 Option 3 ID : **21340935752**  
 Option 4 ID : **21340935749**

Status : **Answered**  
 Chosen Option : **2**

**Q.2** X jogs a total of 7.5 km in a day. He jogged  $25/6$  km in the morning. How much did he jog in the evening?

- Ans
- ☐ 1.  $11/3$  Km
  - ☒ 2.  $10/3$  Km
  - ☐ 3.  $8/3$  Km
  - ☐ 4.  $5/3$  Km

Question ID : **2134098981**  
 Option 1 ID : **21340935924**  
 Option 2 ID : **21340935923**  
 Option 3 ID : **21340935921**  
 Option 4 ID : **21340935922**

Status : **Answered**  
 Chosen Option : **2**

**Q.3**

An object starts from rest at  $x = 0$  m and  $t = 0$  s. It moves with a constant acceleration of  $3 \text{ m/s}^2$  along x axis. What is its average velocity between time duration of 2 s and 4 s?

- Ans
- ☒ 1. 3 m/s
  - ☒ 2. 6 m/s
  - ☒ 3. 9 m/s
  - ☒ 4. 12 m/s

Question ID : 2134098963  
Option 1 ID : 21340935849  
Option 2 ID : 21340935850  
Option 3 ID : 21340935851  
Option 4 ID : 21340935852  
Status : Not Answered  
Chosen Option : --

Q.4 A sum of money invested at a compound interest amounts to 800 in 2 year and 840 in 3 year. The rate of interest is:

- Ans
- ☒ 1. 5 %
  - ☒ 2. 4 %
  - ☒ 3. 6 %
  - ☒ 4. 7 %

Question ID : 2134098987  
Option 1 ID : 21340935945  
Option 2 ID : 21340935947  
Option 3 ID : 21340935948  
Option 4 ID : 21340935946  
Status : Answered  
Chosen Option : 1

Q.5 A component that adds to a software program's functionality is called as: \_\_\_\_\_.

- Ans
- ☒ 1. Server
  - ☒ 2. Processor
  - ☒ 3. Plug-in
  - ☒ 4. Modem

Question ID : 2134098957  
Option 1 ID : 21340935826  
Option 2 ID : 21340935827  
Option 3 ID : 21340935828  
Option 4 ID : 21340935825  
Status : Answered  
Chosen Option : 3

Q.6 A series is given, with one number missing. Choose the correct alternative from the given ones that will complete the series.

7.4, 8.7, 10.0, 11.3, ?, 13.9

- Ans
- ☒ 1. 12.3
  - ☒ 2. 11.7
  - ☒ 3. 12.6
  - ☒ 4. 11.9





Question ID : **2134099004**  
Option 1 ID : **21340936015**  
Option 2 ID : **21340936013**  
Option 3 ID : **21340936016**  
Option 4 ID : **21340936014**  
Status : **Answered**  
Chosen Option : **3**

**Q.7** The least number consisting of five digits and that is divisible by 97 is x. What is the sum of digits of x?

- Ans  1. 16  
 2. 17  
 3. 15  
 4. 13

Question ID : **2134098976**  
Option 1 ID : **21340935903**  
Option 2 ID : **21340935904**  
Option 3 ID : **21340935902**  
Option 4 ID : **21340935901**  
Status : **Answered**  
Chosen Option : **2**

**Q.8** In a Class 2 lever, effort and load move in the:

- Ans  1. same direction  
 2. perpendicular direction  
 3. opposite direction  
 4. the movement depends on the load





Question ID : **2134098961**  
Option 1 ID : **21340935841**  
Option 2 ID : **21340935844**  
Option 3 ID : **21340935842**  
Option 4 ID : **21340935843**  
Status : **Answered**  
Chosen Option : **1**

**Q.9** Given below is a statement followed by two assumptions numbered I and II. You have to decide which of the assumptions is/are implicit in the statement.

Statement: College students should work during summer holidays to improve their chances of getting a job.

Assumption I: Not all college students want a job.

Assumption II: There are enough summer jobs for most college students.

- Ans  1. Only assumption II is implicit  
 2. Neither I nor II is implicit  
 3. Only assumption I is implicit  
 4. Both I and II are implicit

Question ID : **2134099025**  
Option 1 ID : **21340936098**  
Option 2 ID : **21340936100**

Option 3 ID : **21340936097**  
Option 4 ID : **21340936099**  
Status : **Answered**  
Chosen Option : **2**

Q.1  
0 If we compare the effort arm length with the load arm length in a class 1 lever, \_\_\_\_\_

- Ans
- ☒ 1. effort arm length is always  $<$  load arm length
  - ☒ 2. effort arm length is always  $>$  load arm length
  - ☒ 3. effort arm length can be greater than, equal to or less than the length of the load arm
  - ☒ 4. effort arm length is always  $=$  load arm length

Question ID : **2134098959**  
Option 1 ID : **21340935834**  
Option 2 ID : **21340935833**  
Option 3 ID : **21340935836**  
Option 4 ID : **21340935835**  
Status : **Answered**  
Chosen Option : **3**

Q.1  
1 What is the distance between the points  $(-2, 4)$  and  $(4, 4)$ ?

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

Question ID : **2134098990**  
Option 1 ID : **21340935959**  
Option 2 ID : **21340935958**  
Option 3 ID : **21340935960**  
Option 4 ID : **21340935957**  
Status : **Answered**  
Chosen Option : **4**





Q.1  
2 Which two signs should be interchanged to correct the given equation?

$$15 \div 3 + 2 \times 10 - 6 = 14$$

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

Question ID : **2134099008**  
Option 1 ID : **21340936031**  
Option 2 ID : **21340936029**  
Option 3 ID : **21340936032**  
Option 4 ID : **21340936030**  
Status : **Answered**  
Chosen Option : **1**

**Q.1** If G + H means G is daughter of H; G - H means G is father-in-law of H; and G \* H means G is husband of H, then  
**3** which of the following shows that O is the sister of L?

- Ans**  1.  $O + M - N * L$   
 2.  $O - N + M * L$   
 3.  $O - N * M + L$   
 4.  $O * N - M + L$


Question ID : **2134099010**  
 Option 1 ID : **21340936037**  
 Option 2 ID : **21340936038**  
 Option 3 ID : **21340936039**  
 Option 4 ID : **21340936040**

Status : **Answered**

Chosen Option : **1**

**Q.1** A statement/group of statements is given followed by some conclusions. Choose the conclusion that logically follows  
**4** from the given statement/s.

Statement: All hardworking worker in the factory have been promoted in the last five year.


**Ans**  1. After promotion, some worker stopped working hard.

 2.

There are no worker in the factory who are not hardworking.

 3.

Some worker who were promoted in the last five year are hardworking.





 4. Hardworking is the only criteria for promotion.

Question ID : **2134099016**  
 Option 1 ID : **21340936063**  
 Option 2 ID : **21340936061**  
 Option 3 ID : **21340936062**  
 Option 4 ID : **21340936064**

Status : **Answered**

Chosen Option : **3**

**Q.1** If C % D means C is the wife of D; C & D means C is the father of D; and If C \$ D means C is the daughter of D, then  
**5** what would X \$ Y % W & Z mean if W has only one daughter?

- Ans**  1. X is the son of Z  
 2. X is the sister of Z  
 3. Z is the sister of the mother of X  
 4. Z is the sister of X

Question ID : **2134099009**  
 Option 1 ID : **21340936036**  
 Option 2 ID : **21340936033**  
 Option 3 ID : **21340936035**  
 Option 4 ID : **21340936034**

Status : **Answered**

Chosen Option : **2**

**Q.1** If we compare the effort arm length with the load arm length in a Class 2 lever, \_\_\_\_\_.  
**6**

**Ans**



☒ 1. effort arm length is always  $>$  load arm length

☐ 2.

effort arm length can be greater than, equal to or less than the length of the load arm

☐ 3. effort arm length is always  $=$  load arm length

☐ 4. effort arm length is always  $<$  load arm length

Question ID : 2134098962

Option 1 ID : 21340935845

Option 2 ID : 21340935848

Option 3 ID : 21340935847

Option 4 ID : 21340935846

Status : Answered

Chosen Option : 1

Q.1 The number 80 is divided in 2 parts such that one part is  $\frac{9}{7}$  times the other. The larger part is:

7

Ans ☐ 1. 50

☐ 2. 50

☐ 3. 48

☒ 4. 45

Question ID : 2134098988

Option 1 ID : 21340935949

Option 2 ID : 21340935952

Option 3 ID : 21340935950

Option 4 ID : 21340935951

Status : Answered

Chosen Option : 4

Q.1 A/An \_\_\_\_\_ is the software that manages all of a computer's processes and allows programs and applications to run.

8

Ans ☐ 1. modem

☐ 2. spam

☐ 3. malware

☒ 4. operating system

Question ID : 2134098958

Option 1 ID : 21340935831

Option 2 ID : 21340935829

Option 3 ID : 21340935830

Option 4 ID : 21340935832

Status : Answered

Chosen Option : 4

Q.1 What will be A's share of profit if the total profit is ₹ 1000 and is to be divided amongst A, B and C in the ratio 3 : 2 : 5?

9

Ans ☐ 1. ₹ 500

☐ 2. ₹ 200

☐ 3. ₹ 250

☒ 4. ₹ 300

Question ID : **2134098995**  
Option 1 ID : **21340935980**  
Option 2 ID : **21340935977**  
Option 3 ID : **21340935978**  
Option 4 ID : **21340935979**  
Status : **Answered**  
Chosen Option : **4**

Q.2 Increasing the pressure on an object \_\_\_\_\_ the volume of the object and therefore \_\_\_\_\_ its density.

0

- Ans ☒ 1. decreases, increases  
☒ 2. increases, decreases  
☒ 3. increases, increases  
☒ 4. decreases, decreases

Question ID : **2134098944**  
Option 1 ID : **21340935773**  
Option 2 ID : **21340935774**  
Option 3 ID : **21340935775**  
Option 4 ID : **21340935776**  
Status : **Answered**  
Chosen Option : **1**

Q.2 Identify the metal having the lowest thermal conductivity.

1

- Ans ☒ 1. Aluminium  
☒ 2. Silver  
☒ 3. Copper  
☒ 4. Mercury

Question ID : **2134098951**  
Option 1 ID : **21340935803**  
Option 2 ID : **21340935801**  
Option 3 ID : **21340935802**  
Option 4 ID : **21340935804**  
Status : **Answered**  
Chosen Option : **4**

Q.2 Laho dance belongs to the state of \_\_\_\_\_ in India.

2

- Ans ☒ 1. Orissa  
☒ 2. Meghalaya  
☒ 3. Rajasthan  
☒ 4. Andhra Pradesh

Question ID : **2134098935**  
Option 1 ID : **21340935737**  
Option 2 ID : **21340935740**  
Option 3 ID : **21340935738**  
Option 4 ID : **21340935739**  
Status : **Not Answered**

Chosen Option : --

Q.2  
3 The view of an object produced on a vertical plane is referred to as:

- Ans
- ☒ 1. Front view
  - ☐ 2. Left hand side view
  - ☐ 3. Top view
  - ☐ 4. Right hand side view

Question ID : 2134098949  
Option 1 ID : 21340935793  
Option 2 ID : 21340935796  
Option 3 ID : 21340935794  
Option 4 ID : 21340935795  
Status : Answered  
Chosen Option : 1

Q.2  
4 What is the power dissipated in a 5-ohm resistor carrying 2 A current?

- Ans
- ☐ 1. 0.6 W
  - ☒ 2. 20 W
  - ☐ 3. 10 W
  - ☐ 4. 2.5 W

Question ID : 2134098975  
Option 1 ID : 21340935900  
Option 2 ID : 21340935898  
Option 3 ID : 21340935897  
Option 4 ID : 21340935899  
Status : Answered  
Chosen Option : 2

Q.2  
5 If a person goes from his house to office walking at 80% of his usual speed, then he is late by 18 minutes to reach the office. What is the usual time taken by him to cover that same distance with his usual speed?

- Ans
- ☐ 1. 75 minutes
  - ☐ 2. 70 minutes
  - ☐ 3. 78 minutes
  - ☒ 4. 72 minutes

Question ID : 2134098999  
Option 1 ID : 21340935995  
Option 2 ID : 21340935993  
Option 3 ID : 21340935996  
Option 4 ID : 21340935994  
Status : Answered  
Chosen Option : 4

Q.2  
6 Select the number that is related to the third number in the same way as the second number is related to the first number  
2/5 : 0.4 :: 1/200 : ?

- Ans
- ☐ 1. 0.05
  - ☐ 2. 0.002



✓ 3. 0.005

✗ 4. 0.2

Question ID : 2134099002

Option 1 ID : 21340936005

Option 2 ID : 21340936008

Option 3 ID : 21340936007

Option 4 ID : 21340936006

Status : Answered

Chosen Option : 3

**Q.2** Pipes A and B fill a tank at 30 m<sup>3</sup>/hr and 40 m<sup>3</sup>/hr respectively. Together they fill the tank in 4 hour. Find the volume of the tank.

**Ans** ✓ 1. 280 m<sup>3</sup>

✗ 2. 180 m<sup>3</sup>

✗ 3. 360 m<sup>3</sup>

✗ 4. 200 m<sup>3</sup>

Question ID : 2134098994

Option 1 ID : 21340935974

Option 2 ID : 21340935975

Option 3 ID : 21340935976

Option 4 ID : 21340935973

Status : Answered

Chosen Option : 1

**Q.2** How much heat should be transferred to the 100 g of an edible oil to raise its temperature by 20 °C? (Specific heat of oil 1965 Jkg<sup>-1</sup>K<sup>-1</sup>)

**Ans** ✗ 1. 1.32 kJ

✗ 2. 2.70 kJ

✓ 3. 3.93 kJ

✗ 4. 4.31 kJ

Question ID : 2134098964

Option 1 ID : 21340935853

Option 2 ID : 21340935854

Option 3 ID : 21340935855

Option 4 ID : 21340935856

Status : Answered

Chosen Option : 3

**Q.2** What is the square root of 0.000225?

**Ans** ✓ 1. 0.015

✗ 2. 0.0015

✗ 3. 0.0125

✗ 4. 0.005

Question ID : 2134098998

Option 1 ID : 21340935989

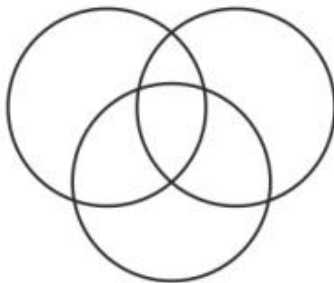
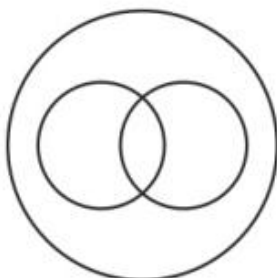
Option 2 ID : 21340935991

Option 3 ID : 21340935992

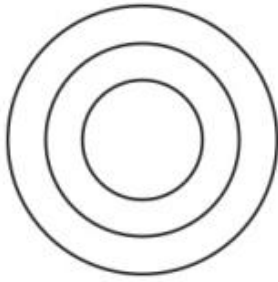
Option 4 ID : **21340935990**Status : **Answered**Chosen Option : **1****Q.3**  
0 10 % of 1000 % of 100 = ?Ans ☒ 1. 100☒ 2. 110☒ 3. 102☒ 4. 105Question ID : **2134098996**Option 1 ID : **21340935981**Option 2 ID : **21340935984**Option 3 ID : **21340935982**Option 4 ID : **21340935983**Status : **Answered**Chosen Option : **1****Q.3**  
1 Which of the following quantities does not have dimensions?Ans ☒ 1. Relative permeability☒ 2. Frequency☒ 3. Volume☒ 4. ForceQuestion ID : **2134098936**Option 1 ID : **21340935744**Option 2 ID : **21340935741**Option 3 ID : **21340935743**Option 4 ID : **21340935742**Status : **Answered**Chosen Option : **1****Q.3** Which of the following venn diagrams best represents the relationship between women, mother and doctor?

2

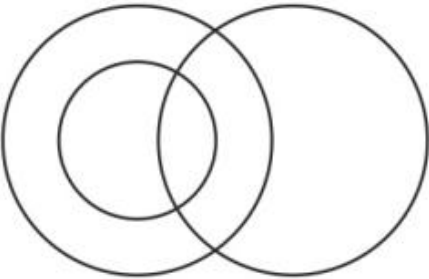
Ans

☒ 1.☒ 2.

✗ 3.



✓ 4.



Question ID : 2134099014

Option 1 ID : 21340936054

Option 2 ID : 21340936055

Option 3 ID : 21340936053

Option 4 ID : 21340936056

Status : Answered

Chosen Option : 4

**Q.3** A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

TTTTTO, TTTTTOI, TTTTOTT, TTTOTTT

Ans ✗ 1. TTTOTTTT

✓ 2. TTOTTTT

✗ 3. TTTOTTTTO

✗ 4. TTOTTT

Question ID : 2134099003

Option 1 ID : 21340936011

Option 2 ID : 21340936010

Option 3 ID : 21340936012

Option 4 ID : 21340936009

Status : Answered

Chosen Option : 2

**Q.3** Standing up and supporting the lower back with hands, then gently arching back and holding this posture for some time is called as:

Ans ✗ 1. Wrist stretch

✗ 2. Finger fan

✓ 3. Back arching

✗ 4. Pectoral stretch

Question ID : 2134098956

Option 1 ID : 21340935821

Option 2 ID : 21340935822





Option 3 ID : **21340935824**  
 Option 4 ID : **21340935823**  
 Status : **Answered**  
 Chosen Option : **3**

**Q.3** A cylindrical wire of length  $L$  and radius  $r$  has a resistance  $R$ . The resistance of another wire of the same material but of  
**5** half its length and twice its radius is given by:

- Ans  1.  $R$   
 2.  $R/8$   
 3.  $R/2$   
 4.  $R/4$

Question ID : **2134098967**  
 Option 1 ID : **21340935865**  
 Option 2 ID : **21340935868**  
 Option 3 ID : **21340935866**  
 Option 4 ID : **21340935867**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.3** “Title block” is generally made at the:  
**6**

- Ans  1. Centre of the drawing sheet  
 2. Right hand upper corner of the drawing sheet  
 3. Right hand bottom corner of the drawing sheet  
 4. Left hand upper corner of the drawing sheet

Question ID : **2134098948**  
 Option 1 ID : **21340935789**  
 Option 2 ID : **21340935792**  
 Option 3 ID : **21340935791**  
 Option 4 ID : **21340935790**  
 Status : **Answered**  
 Chosen Option : **3**

**Q.3** The sum of a number and 16 times its reciprocal is 10. The number is:  
**7**

- Ans  1. 8  
 2. 5  
 3. 7  
 4. 6

Question ID : **2134098989**  
 Option 1 ID : **21340935956**  
 Option 2 ID : **21340935953**  
 Option 3 ID : **21340935955**  
 Option 4 ID : **21340935954**  
 Status : **Answered**  
 Chosen Option : **1**

**Q.3**  $\triangle DEF$  is similar to  $\triangle PQR$ . If the ratio of semi-perimeter of  $\triangle DEF$  and  $\triangle PQR$  is 4 : 5 and if  $PQ = 15$  cm, then the length  
**8** of  $DE$  is:

- Ans ☒ 1. 8 cm  
☒ 2. 10 cm  
☒ 3. 12 cm  
☒ 4. 20 cm

Question ID : 2134098991  
Option 1 ID : 21340935962  
Option 2 ID : 21340935963  
Option 3 ID : 21340935964  
Option 4 ID : 21340935961  
Status : Answered  
Chosen Option : 3

Q.3 The construction of the "Sanchi Stupa" was commissioned by which Mauryan Emperor?

- Ans ☒ 1. Bindusara  
☒ 2. Chandragupta Maurya  
☒ 3. Kautilya  
☒ 4. Ashoka

Question ID : 2134098929  
Option 1 ID : 21340935715  
Option 2 ID : 21340935714  
Option 3 ID : 21340935716  
Option 4 ID : 21340935713  
Status : Answered  
Chosen Option : 4

Q.4 Which type of pencil has the hardest graphite lead?

- Ans ☒ 1. HB  
☒ 2. 9H  
☒ 3. 2H  
☒ 4. 3H

Question ID : 2134098946  
Option 1 ID : 21340935783  
Option 2 ID : 21340935781  
Option 3 ID : 21340935782  
Option 4 ID : 21340935784  
Status : Answered  
Chosen Option : 2

Q.4 What was the day of the week on January 26, 1989?

- Ans ☒ 1. Monday  
☒ 2. Tuesday  
☒ 3. Thursday  
☒ 4. Sunday



Question ID : 2134098992

Option 1 ID : 21340935966

Option 2 ID : 21340935967

Option 3 ID : 21340935968

Option 4 ID : 21340935965

Status : Not Answered

Chosen Option : --

Q.4 An article was sold for ₹ 1000. Had a discount of 16% was offered, a profit of 5% would have been made. What is the cost price of the article?

Ans ☒ 1. ₹ 750☒ 2. ₹ 840☒ 3. ₹ 880☒ 4. ₹ 800

Question ID : 2134098980

Option 1 ID : 21340935917

Option 2 ID : 21340935919

Option 3 ID : 21340935920

Option 4 ID : 21340935918

Status : Answered

Chosen Option : 4

Q.4 Our electricity bills carry the energy consumption, expressed in units of \_\_\_\_\_.

Ans ☒ 1. kW☒ 2. kWh☒ 3. KJ☒ 4. KVA

Question ID : 2134098939

Option 1 ID : 21340935753

Option 2 ID : 21340935754

Option 3 ID : 21340935755

Option 4 ID : 21340935756

Status : Answered

Chosen Option : 2

Q.4 The weight of an object on the Earth is 150 N. Its weight on moon will be:

Ans ☒ 1. 50 N☒ 2. 75 N☒ 3. 25 N☒ 4. 150 N

Question ID : 2134098945

Option 1 ID : 21340935779

Option 2 ID : 21340935778

Option 3 ID : 21340935780

Option 4 ID : 21340935777

Status : Answered

Chosen Option : 3

Q.4  
5 What is the HCF of 275 and 308?

- Ans ☒ 1. 11  
☒ 2. 17  
☒ 3. 19  
☒ 4. 15

Question ID : 2134098982  
Option 1 ID : 21340935927  
Option 2 ID : 21340935925  
Option 3 ID : 21340935928  
Option 4 ID : 21340935926  
Status : Answered  
Chosen Option : 1

Q.4  
6 Read the question below followed by two statements. Study them and decide which statement(s) is/are sufficient to answer the question.

Question: What was the revenue of the zoo on a certain day?

Statements:

I) 120 persons visited the zoo on that certain day.

II) A discount of 25% on ticket price was offered on that certain day.

- Ans ☒ 1. Neither statement I nor II is sufficient  
☒ 2. Either statement I or II is sufficient  
☒ 3.

Statement II alone is sufficient while I alone is not sufficient

☒ 4.

Statement I alone is sufficient while II alone is not sufficient

Question ID : 2134099015  
Option 1 ID : 21340936060  
Option 2 ID : 21340936059  
Option 3 ID : 21340936058  
Option 4 ID : 21340936057  
Status : Answered  
Chosen Option : 1

Q.4  
7 An object travels distance of first 30 m in 5 s and the next distance of 30 m in 3 s. The average speed of the object is:

- Ans ☒ 1. 6.5 m/s  
☒ 2. 7.5 m/s  
☒ 3. 9.0 m/s  
☒ 4. 4.5 m/s

Question ID : 2134098969  
Option 1 ID : 21340935874  
Option 2 ID : 21340935875  
Option 3 ID : 21340935876  
Option 4 ID : 21340935873  
Status : Answered  
Chosen Option : 2

Q.4  
8 Which of these is not a type of string musical instrument?

- Ans  1. Bass  
 2. Tuba  
 3. Violin  
 4. Cello

Question ID : 2134098934  
Option 1 ID : 21340935735  
Option 2 ID : 21340935736  
Option 3 ID : 21340935733  
Option 4 ID : 21340935734  
Status : Answered  
Chosen Option : 1

Q.4  
9 The resulting value of  $0.5 \div 12.5 + 0.25 \times 0.05 - 0.0125$  is:

- Ans  1. 0.05  
 2. 0.04  
 3. 0.5  
 4. 0.4

Question ID : 2134098978  
Option 1 ID : 21340935911  
Option 2 ID : 21340935912  
Option 3 ID : 21340935910  
Option 4 ID : 21340935909  
Status : Answered  
Chosen Option : 2

Q.5  
0 In a certain code language, 512 means 'steel makes tower', 175 means 'brick makes tower', and 327 means 'brick and steel'. Find the code for 'and'.

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

Question ID : 2134099005  
Option 1 ID : 21340936019  
Option 2 ID : 21340936017  
Option 3 ID : 21340936020  
Option 4 ID : 21340936018  
Status : Answered  
Chosen Option : 3

Q.5  
1 The median of 2, 9, 11, 7, 3, 4, 8, 5, 3, 6 is:

- Ans  1. 4  
 2. 5.5  
 3. 5  
 4. 3.5

Question ID : 2134098997  
Option 1 ID : 21340935986

Option 2 ID : **21340935987**  
 Option 3 ID : **21340935988**  
 Option 4 ID : **21340935985**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.5**  
**2** An object is accelerating at  $5 \text{ m/s}^2$  from its rest position. The velocity of this object after 5 s is:

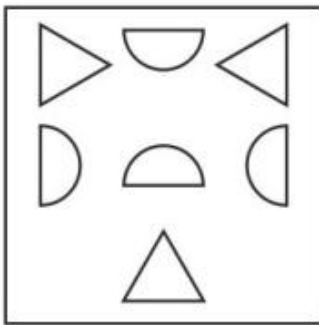
- Ans
- ☒ 1. 5 m/s
  - ☒ 2. 25 m/s
  - ☒ 3. 20 m/s
  - ☒ 4. 15 m/s

Question ID : **2134098968**  
 Option 1 ID : **21340935869**  
 Option 2 ID : **21340935872**  
 Option 3 ID : **21340935871**  
 Option 4 ID : **21340935870**  
 Status : **Answered**  
 Chosen Option : **2**

**Q.5**  
**3** Choose the figure that is different from the rest.

Ans

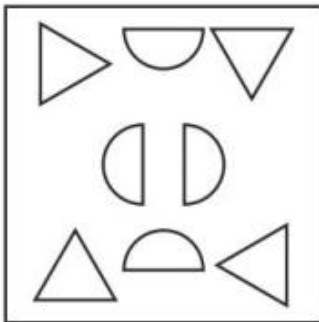
☒ 1.



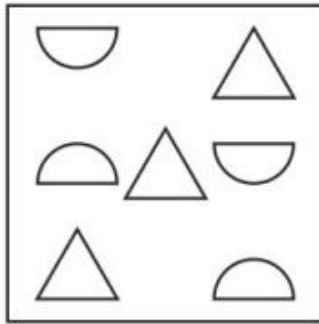
☒ 2.



☒ 3.



✗ 4.



Question ID : **2134099022**

Option 1 ID : **21340936087**

Option 2 ID : **21340936085**

Option 3 ID : **21340936088**

Option 4 ID : **21340936086**

Status : **Answered**

Chosen Option : **4**

**Q.5** Pipes P and Q fill a cistern in 12 minutes when operated together, Q and R fill it in 20 minutes when operated together and P and R fill it in 15 minutes when operated together. In how many minutes can all 3 pipes fill the cistern if operated together?

**Ans** ✓ 1. 10 minutes

✗ 2. 2 minutes

✗ 3. 3 minutes

✗ 4. 4 minutes

Question ID : **2134098993**

Option 1 ID : **21340935969**

Option 2 ID : **21340935972**

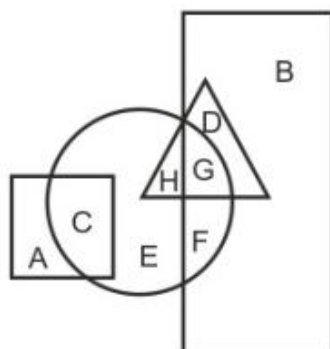
Option 3 ID : **21340935970**

Option 4 ID : **21340935971**

Status : **Answered**

Chosen Option : **1**

**Q.5**  
5 In the following figure, square represents Asians, triangle represents writers, circle represents fathers and rectangle represents actors. Which set of letters represents actors who are writers?



**Ans** ✗ 1. GF

✗ 2. CEG



☒ 3. HGF

☒ 4. GD

Question ID : 2134099013

Option 1 ID : 21340936049

Option 2 ID : 21340936051

Option 3 ID : 21340936052

Option 4 ID : 21340936050

Status : Answered

Chosen Option : 4

**Q.5** Two resistor, one of  $10\ \Omega$  and the other of  $15\ \Omega$ , are connected in parallel. This combination is connected in series with a  $24\ \Omega$  resistor and a  $12\ \text{V}$  battery. The current in the  $15\ \Omega$  resistor is:

**Ans** ☒ 1. 0.24 A

☒ 2. 0.16 A

☒ 3. 0.40 A

☒ 4. 0.12 A

Question ID : 2134098966

Option 1 ID : 21340935863

Option 2 ID : 21340935862

Option 3 ID : 21340935864

Option 4 ID : 21340935861

Status : Answered

Chosen Option : 2

**Q.5** Two trains start moving towards each other when they are 2000 meter apart. First train travels at the speed of  $20\ \text{m/s}$  and the other one at  $30\ \text{m/s}$ . After how many seconds do they meet?

**Ans** ☒ 1. 45

☒ 2. 35

☒ 3. 50

☒ 4. 40

Question ID : 2134098985

Option 1 ID : 21340935939

Option 2 ID : 21340935937

Option 3 ID : 21340935940

Option 4 ID : 21340935938

Status : Answered

Chosen Option : 4

**Q.5** Find the odd set of letter from the given alternatives.

**Ans** ☒ 1. RTV

☒ 2. MNO

☒ 3. CEG

☒ 4. JLN

Question ID : 2134099017

Option 1 ID : 21340936066





Option 2 ID : 21340936065

Option 3 ID : 21340936067

Option 4 ID : 21340936068

Status : **Answered**  
Chosen Option : **2**

**Q.5** Find the odd word from the given alternatives.

- Ans  1. Coin  
 2. Wheel  
 3. Carom board  
 4. Hula hoop

Question ID : **2134099018**  
Option 1 ID : **21340936070**  
Option 2 ID : **21340936071**  
Option 3 ID : **21340936069**  
Option 4 ID : **21340936072**  
Status : **Answered**  
Chosen Option : **3**

**Q.6** A boy weighing 50 kg runs up a staircase of 40 steps, each of 16 height cm, in 10 s. Calculate his power. (Take  $g = 10$  m/s<sup>2</sup>).

- Ans  1. 320 W  
 2. 80 W  
 3. 120 W  
 4. 480 W

Question ID : **2134098941**  
Option 1 ID : **21340935763**  
Option 2 ID : **21340935761**  
Option 3 ID : **21340935762**  
Option 4 ID : **21340935764**  
Status : **Not Answered**  
Chosen Option : --

**Q.6** The work to be done to increase the speed of a 0.5 kg ball from 4 m/s to 8 m/s is:

- Ans  1. 12 J  
 2. 4 J  
 3. 16 J  
 4. 8 J

Question ID : **2134098942**  
Option 1 ID : **21340935767**  
Option 2 ID : **21340935765**  
Option 3 ID : **21340935768**  
Option 4 ID : **21340935766**  
Status : **Not Answered**  
Chosen Option : --

**Q.6** A ball of 200 g is thrown vertically upward with a speed of 20 m/s. The energy of the ball at the highest point of its path is ( take  $g = 10$  m/s<sup>2</sup> ):

- Ans  1. 20 J  
 2. 40 J

☒ 3. 100 J

☒ 4. 200 J

Question ID : 2134098940

Option 1 ID : 21340935757

Option 2 ID : 21340935758

Option 3 ID : 21340935759

Option 4 ID : 21340935760

Status : Answered

Chosen Option : 2

Q.6  
3 A block of wood floats in water with 30% of its volume above water (density  $10^3 \text{ kg/m}^3$ ) The density of wood (in  $\text{kg/m}^3$ ) is:

Ans ☒ 1.  $0.6 \times 10^3$

☒ 2.  $0.3 \times 10^2$

☒ 3.  $0.5 \times 10^2$

☒ 4.  $0.7 \times 10^3$

Question ID : 2134098943

Option 1 ID : 21340935771

Option 2 ID : 21340935769

Option 3 ID : 21340935770

Option 4 ID : 21340935772

Status : Answered

Chosen Option : 1

Q.6  
4 Who was appointed as the Chief Justice of India on 03.10.2018?

Ans ☒ 1. Mr. N.V. Ramana

☒ 2. Mr. Ranjan Gogoi

☒ 3. Mr. Arjan Kumar Sikri

☒ 4. Mr. Kurian Joseph

Question ID : 2134098933

Option 1 ID : 21340935732

Option 2 ID : 21340935729

Option 3 ID : 21340935731

Option 4 ID : 21340935730

Status : Answered

Chosen Option : 2

Q.6  
5 Who invented the World Wide Web?

Ans ☒ 1. Tim Berner-Lee

☒ 2. Vint Cerf

☒ 3. Antonio Meucci

☒ 4. Robert E. Kahn

Question ID : 2134098928

Option 1 ID : 21340935710

Option 2 ID : 21340935709

Option 3 ID : 21340935712

Option 4 ID : 21340935711

Status : Answered

Chosen Option : 1

**Q.6** Two cows G and H are grazing in a field. They start from the same point. G moves 1.5 km South, then turns East and moves 2.5 km, then turns to its right and moves 3.5 km. Meanwhile H has moved 2.5 km East. Where is H with respect to G?

- Ans
- ☒ 1. H is 5 km South of G
  - ☒ 2. H is 5 km North of G
  - ☒ 3. H is 2 km South of G
  - ☒ 4. H is 2 km North of G

Question ID : 2134099024

Option 1 ID : 21340936093

Option 2 ID : 21340936094

Option 3 ID : 21340936096

Option 4 ID : 21340936095

Status : Answered

Chosen Option : 2

**Q.6** Bio-gas is an excellent fuel as it contains up to \_\_\_\_\_ % methane.

- Ans
- ☒ 1. 75
  - ☒ 2. 80
  - ☒ 3. 85
  - ☒ 4. 50

Question ID : 2134098937

Option 1 ID : 21340935746

Option 2 ID : 21340935747

Option 3 ID : 21340935748

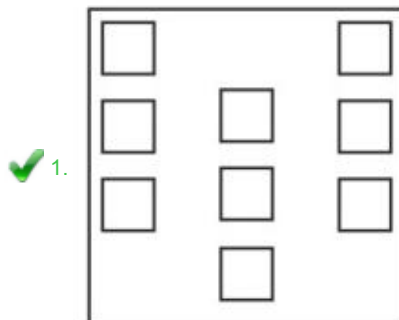
Option 4 ID : 21340935745

Status : Not Answered

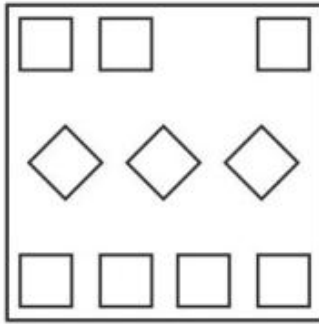
Chosen Option : --

**Q.6** Choose the figure that is different from the rest.

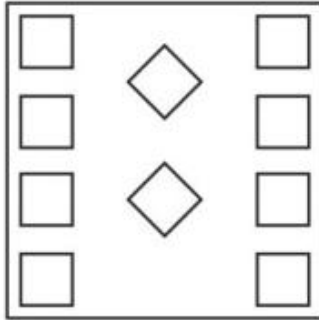
Ans



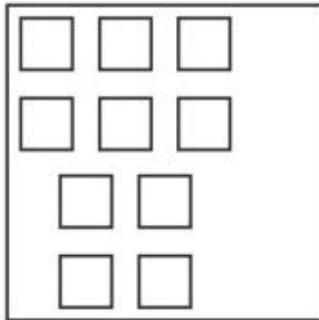
✗ 2.



✗ 3.



✗ 4.



Question ID : 2134099021

Option 1 ID : 21340936082

Option 2 ID : 21340936084

Option 3 ID : 21340936083

Option 4 ID : 21340936081

Status : Answered

Chosen Option : 1

**Q.6** In the question, two statements are given, followed by three conclusions, I, II and III. 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 : All bamboo are tall.

Statement 2 : All tall are grass.

Conclusion I : Some grass are bamboo.

Conclusion II : Some tall are bamboo.

Conclusion III : Some grass are tall.

**Ans** ✗ 1. Only conclusions I and III follow

✓ 2. All conclusions I, II and III follow

✗ 3. Only conclusions I and II follow

✗ 4. Only conclusions II and III follow

Question ID : 2134099012

Option 1 ID : 21340936047



Option 2 ID : **21340936048**  
Option 3 ID : **21340936045**  
Option 4 ID : **21340936046**  
Status : **Answered**  
Chosen Option : **2**

**Q.7** Two resistor, each of 20 ohm, are connected in parallel and this combination is connected across a 40 V supply voltage.  
**0** Find the resistance offered by the voltage source.

- Ans** ☒ 1. 20 ohm  
☒ 2. 10 ohm  
☒ 3. 40 ohm  
☒ 4. 25 ohm

Question ID : **2134098974**  
Option 1 ID : **21340935895**  
Option 2 ID : **21340935893**  
Option 3 ID : **21340935896**  
Option 4 ID : **21340935894**  
Status : **Answered**  
Chosen Option : **2**

**Q.7** Which of the following organisations prepares a Red List of Threatened Species?  
**1**

- Ans** ☒ 1. OIE  
☒ 2. WWF  
☒ 3. IUCN  
☒ 4. RPPO

Question ID : **2134098932**  
Option 1 ID : **21340935727**  
Option 2 ID : **21340935726**  
Option 3 ID : **21340935725**  
Option 4 ID : **21340935728**  
Status : **Answered**  
Chosen Option : **3**

**Q.7** Which country did India beat to win the Under19 Cricket Asia Cup 2018?  
**2**

- Ans** ☒ 1. Afghanistan  
☒ 2. Bangladesh  
☒ 3. Sri Lanka  
☒ 4. Pakistan

Question ID : **2134098926**  
Option 1 ID : **21340935702**  
Option 2 ID : **21340935704**  
Option 3 ID : **21340935703**  
Option 4 ID : **21340935701**  
Status : **Answered**  
Chosen Option : **4**

**Q.7** The length and breadth of a rectangle is 6 cms and 8cms respectively. Then what will be the area of a square whose side  
**3** is equal to the length of the diagonal of this rectangle.

- Ans ☒ 1.  $196 \text{ cm}^2$
- ☒ 2.  $96 \text{ cm}^2$
- ☒ 3.  $92 \text{ cm}^2$
- ☒ 4.  $100 \text{ cm}^2$

Question ID : 2134098983  
Option 1 ID : 21340935932  
Option 2 ID : 21340935931  
Option 3 ID : 21340935930  
Option 4 ID : 21340935929  
Status : Answered  
Chosen Option : 4

Q.7  
4 A pair of plier and scissor are together considered as a \_\_\_\_\_ Class 1 lever.

- Ans ☒ 1. triple
- ☒ 2. single
- ☒ 3. double
- ☒ 4. simple

Question ID : 2134098960  
Option 1 ID : 21340935839  
Option 2 ID : 21340935838  
Option 3 ID : 21340935837  
Option 4 ID : 21340935840  
Status : Not Answered  
Chosen Option : --

Q.7  
5 Identify the insulator from the below having high resistivity.

- Ans ☒ 1. Glass
- ☒ 2. Diamond
- ☒ 3. Dry paper
- ☒ 4. Hard rubber

Question ID : 2134098971  
Option 1 ID : 21340935882  
Option 2 ID : 21340935884  
Option 3 ID : 21340935883  
Option 4 ID : 21340935881  
Status : Answered  
Chosen Option : 2

Q.7  
6 A sum of ₹ 10000 was deposited in a bank that offer 20% annual compound interest. What will the amount be in the bank after 2 year?

- Ans ☒ 1. ₹ 14400
- ☒ 2. ₹ 13600
- ☒ 3. ₹ 8000

✗ 4. ₹ 12000

Question ID : 2134098986  
Option 1 ID : 21340935944  
Option 2 ID : 21340935943  
Option 3 ID : 21340935941  
Option 4 ID : 21340935942

Status : Answered  
Chosen Option : 1

Q.7  
7 A 'compass' is used to draw:

- Ans
- ✗ 1. Rectangle
  - ✗ 2. Triangle
  - ✗ 3. Straight line
  - ✓ 4. Circle

Question ID : 2134098947  
Option 1 ID : 21340935788  
Option 2 ID : 21340935786  
Option 3 ID : 21340935787  
Option 4 ID : 21340935785

Status : Answered  
Chosen Option : 4

Q.7  
8 Identify the non-metal, having high thermal conductivity.

- Ans
- ✗ 1. Wood
  - ✓ 2. Ice
  - ✗ 3. Water
  - ✗ 4. Insulating brick

Question ID : 2134098952  
Option 1 ID : 21340935808  
Option 2 ID : 21340935807  
Option 3 ID : 21340935806  
Option 4 ID : 21340935805

Status : Answered  
Chosen Option : 4

Q.7  
9 In the question, two statements are given, 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 : All storms are cyclones.  
Statement 2 : All cyclones are tornadoes.

Conclusion I : Some tornadoes are storms.  
Conclusion II : Some cyclones are storms.

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

Question ID : **2134099011**  
 Option 1 ID : **21340936041**  
 Option 2 ID : **21340936044**  
 Option 3 ID : **21340936043**  
 Option 4 ID : **21340936042**  
 Status : **Answered**  
 Chosen Option : **3**

**Q.8** A jogger jogs 1 km East, then turns North and jogs 4 km, then turns West and jogs 6 km, then turns to his left and jogs 4 km. Where is he now with reference to his starting position?

- Ans**  1. 5 km East  
 2. 5 km West  
 3. 7 km West  
 4. 7 km East

Question ID : **2134099023**  
 Option 1 ID : **21340936090**  
 Option 2 ID : **21340936089**  
 Option 3 ID : **21340936091**  
 Option 4 ID : **21340936092**  
 Status : **Answered**  
 Chosen Option : **2**





**Q.8** In a certain code language, '+' represents 'x', '-' represents '+', 'x' represents '-' and '-' represents '+', calculate the answer of the following equation.

$$8 + 3 \times 4 - 2 = ?$$

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

Question ID : **2134099007**  
 Option 1 ID : **21340936025**  
 Option 2 ID : **21340936028**  
 Option 3 ID : **21340936027**  
 Option 4 ID : **21340936026**  
 Status : **Answered**  
 Chosen Option : **4**

**Q.8** M, N, O and P are sitting around a round table? M does not want to sit next to P. N is to the right of P. Which statement of the below is false?

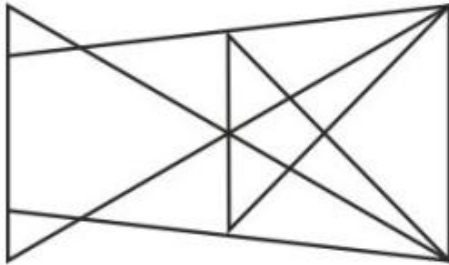
- Ans**  1. O is to the right of P  
 2. O is facing N  
 3. M is facing P  
 4. M is to the right of N

Question ID : **2134099020**  
 Option 1 ID : **21340936077**  
 Option 2 ID : **21340936078**  
 Option 3 ID : **21340936079**  
 Option 4 ID : **21340936080**  
 Status : **Answered**

Chosen Option : 1

**Q.8**  
**3**

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



Ans  1.9

**2. 12**

**X** 3. 10

**4. 11**

Question ID : 2134099019

Option 1 ID : 21340936074

Option 2 ID : 21340936076

Option 3 ID : 21340936073


Option 4 ID : 21340936075

Status : **Answered**

Chosen Option : 1

**Q.8**  
**4**

Which of these is not a novel written by Premchand?

Ans  1. Nirmala

## 2. Gaban

**3. Godaan**

✓ 4. Deepshikha

Question ID : 2134098930

Option 1 ID : 21340935719

Option 2 ID : 21340935718

Option 3 ID : 21340935717

Option 4 ID : 21340935720

Status : **Answered**

Chosen Option : 4

**Q.8**  
**5**


The specific heat capacity of a substance is defined by:

Ans ~~X~~ 1.  $m(\Delta Q/\Delta T)$

2.  $m(\Delta T/\Delta Q)$

✓ 3.  $(1/m)(\Delta Q/\Delta T)$







 4.  $(1/m)(\Delta T/\Delta Q)$

Question ID : 2134098953  
Option 1 ID : 21340935809  
Option 2 ID : 21340935812  
Option 3 ID : 21340935810  
Option 4 ID : 21340935811

Status : Answered  
Chosen Option : 3

Q.8  
6 What is the side of a cube if the total surface area is 96 sq. cm?

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

Question ID : 2134098984  
Option 1 ID : 21340935935  
Option 2 ID : 21340935933  
Option 3 ID : 21340935934  
Option 4 ID : 21340935936

Status : Answered  
Chosen Option : 3

Q.8  
7 Select the word that is related to the third word in the same way as the second word is related to the first word.

Walnut : Shell :: Banana : ?

- Ans  1. Green  
 2. Ripe  
 3. Peel  
 4. Fruit

Question ID : 2134099001  
Option 1 ID : 21340936002  
Option 2 ID : 21340936004  
Option 3 ID : 21340936003  
Option 4 ID : 21340936001

Status : Answered  
Chosen Option : 3

Q.8  
8 The thanksgiving festival of Pongal is primarily celebrated in which state of India?

- Ans  1. Maharashtra  
 2. Uttar Pradesh  
 3. Tamilnadu  
 4. Rajasthan

Question ID : 2134098927  
Option 1 ID : 21340935707  
Option 2 ID : 21340935708  
Option 3 ID : 21340935705

Option 4 ID : 21340935706

Status : Answered

Chosen Option : 3

Q.8 Identify the material having the lowest coefficient of linear expansion.

- Ans
- ☒ 1. Brass
  - ☒ 2. Lead
  - ☒ 3. Copper
  - ☒ 4. Iron

Question ID : 2134098955

Option 1 ID : 21340935817

Option 2 ID : 21340935818

Option 3 ID : 21340935819

Option 4 ID : 21340935820

Status : Answered

Chosen Option : 2

Q.9 A source of voltage  $V$  maintains a current  $I$  in a circuit. The power ( $P$ ) input to the circuit by the source is given by:

- Ans
- ☒ 1.  $P = 1/(VI)$
  - ☒ 2.  $P = VI$
  - ☒ 3.  $P = I/V$
  - ☒ 4.  $P = V/I$

Question ID : 2134098973

Option 1 ID : 21340935890

Option 2 ID : 21340935889

Option 3 ID : 21340935892

Option 4 ID : 21340935891

Status : Answered

Chosen Option : 2

Q.9 At what price should a computer be sold so as to get a profit of 25% when its cost price is ₹ 18000?

- Ans
- ☒ 1. ₹ 21000
  - ☒ 2. ₹ 23000
  - ☒ 3. ₹ 20500
  - ☒ 4. ₹ 22500

Question ID : 2134098979

Option 1 ID : 21340935914

Option 2 ID : 21340935916

Option 3 ID : 21340935913

Option 4 ID : 21340935915

Status : Answered

Chosen Option : 4

Q.9 What will be the distance covered by a bus moving with a speed of 72 km/h in 5 seconds?

- Ans
- ☒ 1. 200 m

☒ 2. 400 m

☒ 3. 50 m

☒ 4. 100 m

Question ID : 2134098970

Option 1 ID : 21340935877

Option 2 ID : 21340935880

Option 3 ID : 21340935878

Option 4 ID : 21340935879

Status : Answered

Chosen Option : 4

Q.9  
3 What is the digit that will come at the unit's place in the result of  $(423)^{423} \times (1237)^{28}$ .

Ans ☒ 1. 7

☒ 2. 3

☒ 3. 9

☒ 4. 1

Question ID : 2134098977

Option 1 ID : 21340935906

Option 2 ID : 21340935907

Option 3 ID : 21340935908

Option 4 ID : 21340935905

Status : Answered

Chosen Option : 1

Q.9  
4 The idea of a Constituent Assembly was given by:

Ans ☒ 1. Maulana Abul Kalam Azad

☒ 2. B.R. Ambedkar

☒ 3. M.N Roy

☒ 4. Dr. Rajendra Prasad

Question ID : 2134098931

Option 1 ID : 21340935723

Option 2 ID : 21340935724

Option 3 ID : 21340935722

Option 4 ID : 21340935721

Status : Answered

Chosen Option : 3

Q.9  
5 The Celsius temperature ( $t_C$ ) and the Fahrenheit temperature ( $t_F$ ) are related as:

Ans ☒ 1.  $t_F = (9/5) t_C + 32$

☒ 2.  $t_F = (5/9) t_C$

☒ 3.  $t_F = (9/5) t_C$

☒ 4.  $t_F = (5/9) t_C + 32$

Question ID : 2134098954

Option 1 ID : **21340935813**  
 Option 2 ID : **21340935815**  
 Option 3 ID : **21340935814**  
 Option 4 ID : **21340935816**  
 Status : **Answered**  
 Chosen Option : **1**

**Q.9**  
6 In a certain code language, if STUDIO is coded as QRBGM, then how will RAW be coded in that language?

- Ans ☒ 1. TGB  
☒ 2. UKN  
☒ 3. PYU  
☒ 4. ₹W

Question ID : **2134099006**  
 Option 1 ID : **21340936021**  
 Option 2 ID : **21340936022**  
 Option 3 ID : **21340936023**  
 Option 4 ID : **21340936024**  
 Status : **Not Answered**  
 Chosen Option : **--**

**Q.9**  
7 The sum of the present ages of a father and a son is 45 year. 5 year ago, the ratio of their ages was 6 : 1. Find the current age of the father.

- Ans ☒ 1. 30 year  
☒ 2. 40 year  
☒ 3. 35 year  
☒ 4. 25 year

Question ID : **2134099000**  
 Option 1 ID : **21340935997**  
 Option 2 ID : **21340935999**  
 Option 3 ID : **21340935998**  
 Option 4 ID : **21340936000**  
 Status : **Answered**  
 Chosen Option : **3**

**Q.9**  
8 In the fit-angle projection:

- Ans ☒ 1.  
 The plane of the projection lies between the object and the observer  
☒ 2. Object lies in the third quadrant  
☒ 3. Object lies between observer and plane of projection  
☒ 4. Object lies in the fourth quadrant

Question ID : **2134098950**  
 Option 1 ID : **21340935800**  
 Option 2 ID : **21340935797**  
 Option 3 ID : **21340935798**  
 Option 4 ID : **21340935799**  
 Status : **Not Answered**

Chosen Option : --

**Q.9** A sheet of styrofoam of thickness 2 cm and area  $0.1 \text{ m}^2$  has a temperature difference of  $30^\circ\text{C}$  between its inner and outer surfaces. Considering thermal conductivity as  $0.01 \text{ J/s m K}$ , the rate of heat flow through the sheet is:

- Ans ☒ 1.  $1.5 \text{ J/s}$   
☒ 2.  $3.0 \text{ J/s}$   
☒ 3.  $1.0 \text{ J/s}$   
☒ 4.  $2.0 \text{ J/s}$

Question ID : **2134098965**  
Option 1 ID : **21340935858**  
Option 2 ID : **21340935860**  
Option 3 ID : **21340935857**  
Option 4 ID : **21340935859**  
Status : **Not Answered**  
Chosen Option : --

**Q.1** If we double the length of a copper wire, its resistance increases by \_\_\_\_\_ times.

- Ans ☒ 1. four  
☒ 2. three  
☒ 3. two  
☒ 4. one

Question ID : **2134098972**  
Option 1 ID : **21340935888**  
Option 2 ID : **21340935886**  
Option 3 ID : **21340935887**  
Option 4 ID : **21340935885**  
Status : **Answered**  
Chosen Option : **3**

Section : **Electronics Mechanic**

**Q.1** UJT is not used for:

- Ans ☒ 1. triggering an SCR/TRIAC  
☒ 2. amplification  
☒ 3. phase control  
☒ 4. timing circuits

Question ID : **2134099058**  
Option 1 ID : **21340936230**  
Option 2 ID : **21340936232**  
Option 3 ID : **21340936231**  
Option 4 ID : **21340936229**  
Status : **Answered**  
Chosen Option : **2**

**Q.2** The source of light for optic fibre transmission is \_\_\_\_\_.

- Ans
- ☒ 1. mercury lamp
  - ☒ 2. ARC lamp
  - ☒ 3. incandescent lamp
  - ☒ 4. LED

Question ID : 2134099099

Option 1 ID : 21340936396

Option 2 ID : 21340936395

Option 3 ID : 21340936394

Option 4 ID : 21340936393

Status : Answered

Chosen Option : 4

Q.3 Sine Wave RMS = \_\_\_\_\_.

- Ans
- ☒ 1. Peak voltage / Square root of 3
  - ☒ 2. Peak voltage / Square root of 2
  - ☒ 3. Peak voltage / Square root of 5
  - ☒ 4. Peak voltage / Square root of 6

Question ID : 2134099027

Option 1 ID : 21340936105

Option 2 ID : 21340936106

Option 3 ID : 21340936107

Option 4 ID : 21340936108

Status : Answered

Chosen Option : 2

Q.4 Which of the following is a function of an inductor?

- Ans
- ☒ 1. It opposes the flow of DC.
  - ☒ 2. It opposes the flow of AC
  - ☒ 3. It opposes the flow of both AC and DC.
  - ☒ 4. It allows the flow of current.

Question ID : 2134099030

Option 1 ID : 21340936119

Option 2 ID : 21340936118

Option 3 ID : 21340936120

Option 4 ID : 21340936117

Status : Answered

Chosen Option : 2

Q.5 An IC with four NOR gates is:

- Ans
- ☒ 1. 7486
  - ☒ 2. 7432
  - ☒ 3. 7404
  - ☒ 4. 7402



Question ID : **2134099065**Option 1 ID : **21340936257**Option 2 ID : **21340936259**Option 3 ID : **21340936260**Option 4 ID : **21340936258**Status : **Not Answered**

Chosen Option : --

Q.6 Input ripple of SMPS is \_\_\_\_\_.

Ans ☒ 1. very low

☒ 2. nil

☒ 3. high

☒ 4. low

Question ID : **2134099085**Option 1 ID : **21340936340**Option 2 ID : **21340936339**Option 3 ID : **21340936338**Option 4 ID : **21340936337**Status : **Not Answered**

Chosen Option : --

Q.7 In a bipolar transistor, alpha is the ratio of:

Ans ☒ 1. collector current to emitter current

☒ 2. emitter current to collector current

☒ 3. collector current to base current

☒ 4. base current to collector current

Question ID : **2134099046**Option 1 ID : **21340936182**Option 2 ID : **21340936184**Option 3 ID : **21340936181**Option 4 ID : **21340936183**Status : **Answered**

Chosen Option : 1

Q.8 Cells are connected in series in order to

Ans ☒ 1. Decrease the voltage

☒ 2. increase the cell life

☒ 3. Increase the current

☒ 4. Increase the Voltage

Question ID : **2134099091**Option 1 ID : **21340936362**Option 2 ID : **21340936364**Option 3 ID : **21340936361**Option 4 ID : **21340936363**Status : **Answered**

Chosen Option : 4

Q.9 The power factor of a D.C. circuit is always

- Ans
- ☒ 1. Leading
  - ☒ 2. Lagging
  - ☒ 3. zero
  - ☒ 4. Unity

Question ID : 2134099036

Option 1 ID : 21340936143

Option 2 ID : 21340936141

Option 3 ID : 21340936144

Option 4 ID : 21340936142

Status : Answered

Chosen Option : 4

Q.1  
0 Transformer losses are due to:

- Ans
- ☒ 1. primary loss
  - ☒ 2. core and copper losses
  - ☒ 3. only copper losses
  - ☒ 4. only core losses

Question ID : 2134099033

Option 1 ID : 21340936132

Option 2 ID : 21340936129

Option 3 ID : 21340936130

Option 4 ID : 21340936131

Status : Answered

Chosen Option : 2

Q.1  
1 Windows 10 is a/an:

- Ans
- ☒ 1. counting pulse
  - ☒ 2. operating system
  - ☒ 3. operating and booting system
  - ☒ 4. booting system

Question ID : 2134099041

Option 1 ID : 21340936164

Option 2 ID : 21340936161

Option 3 ID : 21340936163

Option 4 ID : 21340936162

Status : Not Answered

Chosen Option : --

Q.1  
2 Which of the following is an application of transformers?

- Ans
- ☒ 1. AC to DC conversion

- ☐ 2. DC to AC conversion
- ☒ 3. AC to AC conversion with isolation
- ☐ 4. Regulate DC voltage

Question ID : 2134099034  
Option 1 ID : 21340936133  
Option 2 ID : 21340936134  
Option 3 ID : 21340936135  
Option 4 ID : 21340936136  
Status : Answered  
Chosen Option : 3

Q.1  
3 The binary representation for the hexadecimal number 4A is:

- Ans ☐ 1. 111101
- ☐ 2. 101101
- ☐ 3. 101111
- ☒ 4. 1001010

Question ID : 2134099066  
Option 1 ID : 21340936262  
Option 2 ID : 21340936264  
Option 3 ID : 21340936263  
Option 4 ID : 21340936261  
Status : Answered  
Chosen Option : 4

Q.1  
4 Which of the following shows the proper biasing of a PNP transistor?

- Ans ☒ 1.  
base and emitter - forward bias; collector and emitter - reverse bias
- ☐ 2.  
base and emitter - reverse bias; collector and emitter - forward bias
- ☐ 3.  
base and emitter - forward bias; collector and emitter - forward bias
- ☐ 4.  
base and emitter - reverse bias; collector and emitter - reverse bias

Question ID : 2134099047  
Option 1 ID : 21340936186  
Option 2 ID : 21340936185  
Option 3 ID : 21340936187  
Option 4 ID : 21340936188  
Status : Answered  
Chosen Option : 1

Q.1  
5 What is unity gain amplifier also known as?

- Ans ☐ 1. Single sided
- ☐ 2. Comparator

✓ 3. Voltage follower

✗ 4. Differential

Question ID : 2134099093

Option 1 ID : 21340936371

Option 2 ID : 21340936369

Option 3 ID : 21340936372

Option 4 ID : 21340936370

Status : Answered

Chosen Option : 3

Q.1  
6 Which of the following circuit has its output dependent only upon the present input?

Ans ✗ 1. Analog Circuits

✗ 2. Flip Flops

✗ 3. Sequential Circuits

✓ 4. Combinational Circuits

Question ID : 2134099042

Option 1 ID : 21340936165

Option 2 ID : 21340936168

Option 3 ID : 21340936167

Option 4 ID : 21340936166

Status : Answered

Chosen Option : 2

Q.1  
7 For which of the following gates the output is zero when one or more inputs are zero?

Ans ✗ 1. NOR

✓ 2. AND

✗ 3. NOT

✗ 4. OR

Question ID : 2134099064

Option 1 ID : 21340936256

Option 2 ID : 21340936253

Option 3 ID : 21340936255

Option 4 ID : 21340936254

Status : Answered

Chosen Option : 2

Q.1  
8 In the context of cables, FRC stands for:

Ans ✓ 1. Flat Ribbon Cable

✗ 2. Fast Reeling Cable

✗ 3. Fat Ribbon Cable

✗ 4. Full Rolling Cable

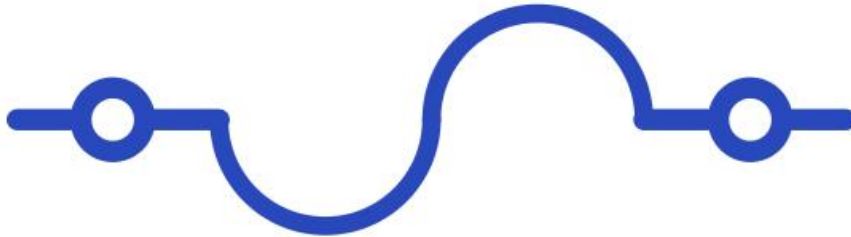
Question ID : 2134099094

Option 1 ID : 21340936375

Option 2 ID : 21340936373

Option 3 ID : **21340936374**  
 Option 4 ID : **21340936376**  
 Status : **Not Answered**  
 Chosen Option : --

Q.1  
9 The following figure represents a/an \_\_\_\_\_.



- Ans
- ☒ 1. MCB
  - ☒ 2. HEATER
  - ☒ 3. SWITCH
  - ☒ 4. FUSE

Question ID : **2134099075**  
 Option 1 ID : **21340936297**  
 Option 2 ID : **21340936300**  
 Option 3 ID : **21340936298**  
 Option 4 ID : **21340936299**  
 Status : **Answered**  
 Chosen Option : 4

Q.2  
0 78xx series ICs are:

- Ans
- ☒ 1. series and shunt regulated
  - ☒ 2. shunt regulated
  - ☒ 3. series regulated
  - ☒ 4. zener regulated

Question ID : **2134099040**  
 Option 1 ID : **21340936159**  
 Option 2 ID : **21340936157**  
 Option 3 ID : **21340936158**  
 Option 4 ID : **21340936160**  
 Status : **Not Answered**  
 Chosen Option : --

Q.2  
1 CRO stands for:

- Ans
- ☒ 1. Cathode register oscilloscope
  - ☒ 2. Cathode Ray Oscilloscope
  - ☒ 3. Cathode Relay Oscilloscope
  - ☒ 4. Cathode Rectifier Oscilloscope

Question ID : **2134099037**  
Option 1 ID : **21340936148**  
Option 2 ID : **21340936146**  
Option 3 ID : **21340936147**  
Option 4 ID : **21340936145**  
Status : **Answered**  
Chosen Option : **2**

**Q.2**  
**2** Heat sink of a power transistor can be used for:

- Ans
- ☒ 1. additional heat observation
  - ☒ 2. increasing the heat
  - ☒ 3. additional heat dissolution in water
  - ☒ 4. additional heat dissipation

Question ID : **2134099050**  
Option 1 ID : **21340936198**  
Option 2 ID : **21340936200**  
Option 3 ID : **21340936199**  
Option 4 ID : **21340936197**  
Status : **Answered**  
Chosen Option : **4**

**Q.2**  
**3** What will be the power required by a bulb load having a resistance of  $50\ \Omega$  if the voltage applied is 220 V?

- Ans
- ☒ 1. 1068 W
  - ☒ 2. 968 W
  - ☒ 3. 200 W
  - ☒ 4. 828 W

Question ID : **2134099088**  
Option 1 ID : **21340936351**  
Option 2 ID : **21340936352**  
Option 3 ID : **21340936349**  
Option 4 ID : **21340936350**  
Status : **Answered**  
Chosen Option : **2**

**Q.2**  
**4** 10 cells each with an EMF of 1.5 V and an internal resistance of  $0.1\ \Omega$  are connected in series. What will be the total EMF and resistance of the circuit?

- Ans
- ☒ 1. 4.15 V and  $2.0\ \Omega$
  - ☒ 2. 1.18 V and  $1.5\ \Omega$
  - ☒ 3. 3.21 V and  $1.5\ \Omega$
  - ☒ 4. 15 V and  $1.0\ \Omega$

Question ID : **2134099032**  
Option 1 ID : **21340936128**  
Option 2 ID : **21340936125**  
Option 3 ID : **21340936127**  
Option 4 ID : **21340936126**  
Status : **Answered**  
Chosen Option : **4**



Q.2  
5 The current towards a junction is:

- Ans
- ☒ 1. twice the current towards the junction
  - ☒ 2. equal to the sum of currents towards the junction
  - ☒ 3. equal to the current away from the junction
  - ☒ 4. not equal to the current away from the junction

Question ID : 2134099035

Option 1 ID : 21340936140

Option 2 ID : 21340936138

Option 3 ID : 21340936137

Option 4 ID : 21340936139

Status : Answered

Chosen Option : 3

Q.2  
6 Burglar alarm circuits consist of

- Ans
- ☒ 1. IRLEDs
  - ☒ 2. LVDs
  - ☒ 3. LCDs
  - ☒ 4. VCDs

Question ID : 2134099061

Option 1 ID : 21340936242

Option 2 ID : 21340936241

Option 3 ID : 21340936243

Option 4 ID : 21340936244

Status : Answered

Chosen Option : 1

Q.2  
7 The waveform in a DSO is stored in \_\_\_\_\_ form.

- Ans
- ☒ 1. Digital
  - ☒ 2. Analog
  - ☒ 3. Mixed
  - ☒ 4. Expanded

Question ID : 2134099072

Option 1 ID : 21340936287

Option 2 ID : 21340936285

Option 3 ID : 21340936286

Option 4 ID : 21340936288

Status : Answered

Chosen Option : 1

Q.2  
8 A circuit that changes a code into a set of signals is called

- Ans
- ☒ 1. Decoder
  - ☒ 2. Encoder

- ☒ 3. Selector
- ☒ 4. multiplexer

Question ID : **2134099062**  
Option 1 ID : **21340936245**  
Option 2 ID : **21340936246**  
Option 3 ID : **21340936247**  
Option 4 ID : **21340936248**  
Status : **Answered**  
Chosen Option : **2**

Q.2  
9 Forward biasing of a PN junction diode is indicated by which of the following connections?

- Ans ☒ 1. -ve to anode and +ve to cathode for full cycle
- ☒ 2. +ve to anode and -ve to cathode for full cycle
- ☒ 3. -ve to cathode and -ve to anode for full cycle
- ☒ 4.

+ve to cathode and -ve to anode for one half cycle, and +ve to anode and -ve to cathode for the second half cycle.

Question ID : **2134099039**  
Option 1 ID : **21340936154**  
Option 2 ID : **21340936153**  
Option 3 ID : **21340936155**  
Option 4 ID : **21340936156**  
Status : **Answered**  
Chosen Option : **2**

Q.3  
0 In MS Excel, we cannot calculate:

- Ans ☒ 1. multiplication solutions
- ☒ 2. division solutions
- ☒ 3. integration solutions
- ☒ 4. arithmetic solutions

Question ID : **2134099044**  
Option 1 ID : **21340936176**  
Option 2 ID : **21340936175**  
Option 3 ID : **21340936174**  
Option 4 ID : **21340936173**  
Status : **Answered**  
Chosen Option : **3**

Q.3  
1 The output impedance of a MOSFET is:

- Ans ☒ 1. Extreme high impedance
- ☒ 2. Low impedance
- ☒ 3. Medium impedance
- ☒ 4. High impedance

Question ID : **2134099060**

Option 1 ID : **21340936240**  
Option 2 ID : **21340936237**  
Option 3 ID : **21340936238**  
Option 4 ID : **21340936239**  
Status : **Not Answered**  
Chosen Option : --

**Q.3**  
2 In 8051 microcontroller the resultant of two numbers added is \_\_\_\_\_.

- Ans
- ☒ 1. not stored anywhere
  - ☒ 2. stored in the register
  - ☒ 3. Erased
  - ☒ 4. stored in the accumulator

Question ID : **2134099078**  
Option 1 ID : **21340936311**  
Option 2 ID : **21340936310**  
Option 3 ID : **21340936309**  
Option 4 ID : **21340936312**  
Status : **Answered**  
Chosen Option : 4

**Q.3**  
3 Which component of a digital panel meter converts analogue signals into a digital format?

- Ans
- ☒ 1. comparator
  - ☒ 2. ADC
  - ☒ 3. hall sensor
  - ☒ 4. magnetic field sensor

Question ID : **2134099083**  
Option 1 ID : **21340936329**  
Option 2 ID : **21340936332**  
Option 3 ID : **21340936331**  
Option 4 ID : **21340936330**  
Status : **Answered**  
Chosen Option : 2

**Q.3**  
4 The device used for converting continuous DC to discontinuous DC is known as a/an \_\_\_\_\_.

- Ans
- ☒ 1. rectifier
  - ☒ 2. amplifier
  - ☒ 3. oscillator
  - ☒ 4. chopper

Question ID : **2134099084**  
Option 1 ID : **21340936333**  
Option 2 ID : **21340936335**  
Option 3 ID : **21340936336**  
Option 4 ID : **21340936334**  
Status : **Answered**  
Chosen Option : 3

Q.3  
5 What happens to the resistance of an RTD with an increase in temperature?

- Ans
- ☐ 1. It remains the same.
  - ☒ 2. It increases.
  - ☐ 3. It is uncertain.
  - ☐ 4. It decreases.

Question ID : 2134099097

Option 1 ID : 21340936385

Option 2 ID : 21340936387

Option 3 ID : 21340936386

Option 4 ID : 21340936388

Status : Answered

Chosen Option : 2

Q.3  
6 What is the number of cycles completed by a 50-Hz line in 10 seconds?

- Ans
- ☐ 1. 50
  - ☒ 2. 500
  - ☐ 3. 5
  - ☐ 4. 5000

Question ID : 2134099089

Option 1 ID : 21340936354

Option 2 ID : 21340936355

Option 3 ID : 21340936353

Option 4 ID : 21340936356

Status : Answered

Chosen Option : 2

Q.3  
7 Identify the type of antenna shown in the following picture.



- Ans
- ☐ 1. Monopole
  - ☒ 2. Yagi
  - ☐ 3. Circular
  - ☐ 4. Bi-pole

Question ID : 2134099095

Option 1 ID : 21340936380

Option 2 ID : 21340936378

Option 3 ID : 21340936379

Option 4 ID : 21340936377

Status : **Not Answered**  
Chosen Option : --

Q.3  
8 The gain of an amplifier with feedback is known as \_\_\_\_\_ gain.

- Ans
- ☒ 1. High
  - ☒ 2. Open loop
  - ☒ 3. Low
  - ☒ 4. Closed loop

Question ID : **2134099052**  
Option 1 ID : **21340936207**  
Option 2 ID : **21340936205**  
Option 3 ID : **21340936208**  
Option 4 ID : **21340936206**  
Status : **Answered**  
Chosen Option : 4

Q.3  
9 Which of the following is a function of a resistor?

- Ans
- ☒ 1. It allows the flow of current.
  - ☒ 2. It neither allows nor opposes the flow of current.
  - ☒ 3. It both allows and opposes the flow of current.
  - ☒ 4. It opposes the flow of current.

Question ID : **2134099028**  
Option 1 ID : **21340936109**  
Option 2 ID : **21340936112**  
Option 3 ID : **21340936111**  
Option 4 ID : **21340936110**  
Status : **Answered**  
Chosen Option : 4

Q.4  
0 BC194 is the transistor used for:

- Ans
- ☒ 1. the amplification of AF signal
  - ☒ 2. the amplification of AF and RF signals
  - ☒ 3. the amplification of RF signal
  - ☒ 4. the rectification of AC

Question ID : **2134099049**  
Option 1 ID : **21340936194**  
Option 2 ID : **21340936195**  
Option 3 ID : **21340936193**  
Option 4 ID : **21340936196**  
Status : **Not Answered**  
Chosen Option : --

Q.4  
1 What is the use of an RTD?

Ans

- ☒ 1. Measuring humidity
- ☒ 2. Measuring position
- ☒ 3. Measuring pressure
- ☒ 4. Measuring temperature

Question ID : **2134099079**  
Option 1 ID : **21340936315**  
Option 2 ID : **21340936316**  
Option 3 ID : **21340936314**  
Option 4 ID : **21340936313**  
Status : **Answered**  
Chosen Option : **4**

Q.4  
2 Race Around condition can be avoided in Digital logic circuits using?

- Ans ☒ 1. Master Slave JK Flip Flop
- ☒ 2. Full Adder
  - ☒ 3. Shift Register
  - ☒ 4. AND Gate

Question ID : **2134099063**  
Option 1 ID : **21340936250**  
Option 2 ID : **21340936249**  
Option 3 ID : **21340936251**  
Option 4 ID : **21340936252**  
Status : **Answered**  
Chosen Option : **1**

Q.4  
3 The output of Schmitt trigger is:

- Ans ☒ 1. Sine wave
- ☒ 2. Rectangle wave
  - ☒ 3. Random wave
  - ☒ 4. Square wave

Question ID : **2134099055**  
Option 1 ID : **21340936217**  
Option 2 ID : **21340936220**  
Option 3 ID : **21340936219**  
Option 4 ID : **21340936218**  
Status : **Answered**  
Chosen Option : **2**

Q.4  
4 16-bit registers consist of:

- Ans ☒ 1. 20 flip-flops
- ☒ 2. 12 flip-flops
  - ☒ 3. 8 flip-flops



✓ 4. 16 flip-flops

Question ID : 2134099068  
Option 1 ID : 21340936270  
Option 2 ID : 21340936272  
Option 3 ID : 21340936271  
Option 4 ID : 21340936269  
Status : Answered  
Chosen Option : 4

Q.4  
5 What happens if a capacitor is placed in parallel with a DC source?

- Ans
- ✗ 1. The circuit acts as a short circuit.
  - ✗ 2. It converts DC to AC.
  - ✓ 3. The circuit acts as an open circuit.
  - ✗ 4. It amplifies the voltage.

Question ID : 2134099090  
Option 1 ID : 21340936360  
Option 2 ID : 21340936358  
Option 3 ID : 21340936359  
Option 4 ID : 21340936357  
Status : Answered  
Chosen Option : 3

Q.4  
6 What is the material used for the manufacture of fibre optic cables?

- Ans
- ✗ 1. Steel
  - ✗ 2. Plastic
  - ✗ 3. Wood
  - ✓ 4. Glass

Question ID : 2134099081  
Option 1 ID : 21340936321  
Option 2 ID : 21340936323  
Option 3 ID : 21340936322  
Option 4 ID : 21340936324  
Status : Answered  
Chosen Option : 2

Q.4  
7 Which of the following statements is true with respect to a Primary Cell?

- Ans
- ✓ 1. It can neither be recharged nor be reused.
  - ✗ 2. It can be recharged but cannot be reused.
  - ✗ 3. It can be recharged and reused.
  - ✗ 4. It cannot be recharged but can be reused.

Question ID : 2134099031  
Option 1 ID : 21340936124  
Option 2 ID : 21340936123  
Option 3 ID : 21340936121

Option 4 ID : **21340936122**  
Status : **Answered**  
Chosen Option : **1**

Q.4  
8 For pulse generation, the IC used is:

- Ans  1. 7432  
 2. 7805  
 3. 555  
 4. 7402

Question ID : **2134099071**  
Option 1 ID : **21340936281**  
Option 2 ID : **21340936284**  
Option 3 ID : **21340936283**  
Option 4 ID : **21340936282**  
Status : **Not Answered**  
Chosen Option : --

Q.4  
9 In simple oscillators, \_\_\_\_\_ are used.

- Ans  1. zener diodes  
 2. SCRs  
 3. UJT  
 4. TRIACs

Question ID : **2134099059**  
Option 1 ID : **21340936236**  
Option 2 ID : **21340936234**  
Option 3 ID : **21340936235**  
Option 4 ID : **21340936233**  
Status : **Not Answered**  
Chosen Option : --

Q.5  
0 What is the frequency band of shortwave radio transmission?

- Ans  1. 1.7 to 30 kHz  
 2. 1.7 to 30 MHz  
 3. 1.7 to 30 Hz  
 4. 1.7 to 30 GHz

Question ID : **2134099076**  
Option 1 ID : **21340936303**  
Option 2 ID : **21340936304**  
Option 3 ID : **21340936301**  
Option 4 ID : **21340936302**  
Status : **Not Answered**  
Chosen Option : --

Q.5  
1 Which of the following is used as a receiver for fibre optic communication?

- Ans  1. LDR

☒ 2. Photo diode

☐ 3. IR diode

☐ 4. LED

Question ID : 2134099082

Option 1 ID : 21340936325

Option 2 ID : 21340936326

Option 3 ID : 21340936327

Option 4 ID : 21340936328

Status : Answered

Chosen Option : 4

Q.5  
2 If current = 1.414 A and resistance = 50  $\Omega$ , then find power.

Ans ☐ 1. 300 Watts

☐ 2. 400 Watts

☐ 3. 200 Watts

☒ 4. 100 Watts

Question ID : 2134099026

Option 1 ID : 21340936101

Option 2 ID : 21340936104

Option 3 ID : 21340936103

Option 4 ID : 21340936102

Status : Answered

Chosen Option : 4

Q.5  
3 A limiter circuit is also known as a:

Ans ☐ 1. chopper circuit

☒ 2. clipper circuit

☐ 3. clamp circuit

☐ 4. chopping circuit

Question ID : 2134099056

Option 1 ID : 21340936223

Option 2 ID : 21340936222

Option 3 ID : 21340936221

Option 4 ID : 21340936224

Status : Not Answered

Chosen Option : --

Q.5  
4 The following short name is also called as \_\_\_\_\_ for diode alternating current.

Ans ☐ 1. SCR

☒ 2. DIAC

☐ 3. FET

☐ 4. TRIAC

Question ID : 2134099057

Option 1 ID : 21340936225

Option 2 ID : **21340936226**  
Option 3 ID : **21340936228**  
Option 4 ID : **21340936227**  
Status : **Answered**  
Chosen Option : **2**

Q.5  
5 Fibre cables used for 'Fibre to Home' installations are \_\_\_\_\_.

- Ans
- ☒ 1. multimode graded
  - ☒ 2. multiaxis
  - ☒ 3. single mode
  - ☒ 4. multimode step

Question ID : **2134099100**  
Option 1 ID : **21340936399**  
Option 2 ID : **21340936397**  
Option 3 ID : **21340936400**  
Option 4 ID : **21340936398**  
Status : **Not Answered**  
Chosen Option : --

Q.5  
6 In two-stage LC coupling, the function of a Cc capacitor is:

- Ans
- ☒ 1. to block AC and DC
  - ☒ 2. to block DC voltage
  - ☒ 3. to block AC input signal
  - ☒ 4. to allow AC and DC to pass

Question ID : **2134099051**  
Option 1 ID : **21340936203**  
Option 2 ID : **21340936202**  
Option 3 ID : **21340936201**  
Option 4 ID : **21340936204**  
Status : **Answered**  
Chosen Option : **2**

Q.5  
7 The frequency of the rotor current in an induction motor is equal to:

- Ans
- ☒ 1. slip  $\times$  input frequency
  - ☒ 2. slip  $\times$  stator current
  - ☒ 3. half of the input frequency
  - ☒ 4. the stator current

Question ID : **2134099073**  
Option 1 ID : **21340936289**  
Option 2 ID : **21340936290**  
Option 3 ID : **21340936292**  
Option 4 ID : **21340936291**  
Status : **Not Answered**  
Chosen Option : --

Q.5  
8 The average value of sine wave is \_\_\_\_\_ times the peak value.

- Ans ☒ 1. 0.637  
☒ 2. 2.414  
☒ 3. 1.732  
☒ 4. 1.414

Question ID : 2134099043  
Option 1 ID : 21340936169  
Option 2 ID : 21340936172  
Option 3 ID : 21340936171  
Option 4 ID : 21340936170  
Status : Answered  
Chosen Option : 1

Q.5  
9 A \_\_\_\_\_ can be represented as two port linear network.

- Ans ☒ 1. common collector  
☒ 2. common emitter  
☒ 3. hybrid parameter  
☒ 4. common base

Question ID : 2134099045  
Option 1 ID : 21340936177  
Option 2 ID : 21340936178  
Option 3 ID : 21340936180  
Option 4 ID : 21340936179  
Status : Answered  
Chosen Option : 3


Q.6  
0 Which of the following devices requires a battery?

- Ans ☒ 1. Step-down chopper  
☒ 2. UPS  
☒ 3. Step-up chopper  
☒ 4. stabilizer

Question ID : 2134099086  
Option 1 ID : 21340936344  
Option 2 ID : 21340936343  
Option 3 ID : 21340936342  
Option 4 ID : 21340936341  
Status : Answered  
Chosen Option : 2

Q.6  
1 Impedance can be measured by using which of the following equipment?

- Ans ☒ 1. Function generator  
☒ 2. LCR meter  
☒ 3. CRO

 4. DSO

Question ID : 2134099092

Option 1 ID : 21340936366

Option 2 ID : 21340936368





Option 3 ID : 21340936367

Option 4 ID : 21340936365

Status : Answered

Chosen Option : 2

Q.6  
2 A capacitor consists of \_\_\_\_\_ metal plates separated by an insulator.

- Ans  1. one  
 2. Three  
 3. four  
 4. Two

Question ID : 2134099029

Option 1 ID : 21340936115

Option 2 ID : 21340936116





Option 3 ID : 21340936114

Option 4 ID : 21340936113

Status : Answered

Chosen Option : 4

Q.6  
3 An LVDT is used for measuring \_\_\_\_\_.

- Ans  1. displacement  
 2. speed  
 3. temperature  
 4. frequency

Question ID : 2134099080

Option 1 ID : 21340936319

Option 2 ID : 21340936317





Option 3 ID : 21340936320

Option 4 ID : 21340936318

Status : Answered

Chosen Option : 3

Q.6  
4 In an op-amp, the input impedance is \_\_\_\_\_ and the output impedance is \_\_\_\_\_.

- Ans  1. high; low  
 2. high; high  
 3. low; high  
 4. low; low

Question ID : 2134099069

Option 1 ID : 21340936274

Option 2 ID : 21340936276

Option 3 ID : 21340936273



Option 4 ID : **21340936275**  
Status : **Answered**  
Chosen Option : **1**

**Q.6**  
**5** A push-pull amplifier is used for:

- Ans
- ☒ 1. voltage amplification
  - ☒ 2. RF signal amplification
  - ☒ 3. current amplification
  - ☒ 4. power amplification

Question ID : **2134099054**  
Option 1 ID : **21340936213**  
Option 2 ID : **21340936216**  
Option 3 ID : **21340936214**  
Option 4 ID : **21340936215**  
Status : **Answered**  
Chosen Option : **4**

**Q.6**  
**6** A full-wave bridge rectifier consists of:

- Ans
- ☒ 1. three diodes
  - ☒ 2. one diode
  - ☒ 3. four diodes
  - ☒ 4. two diodes

Question ID : **2134099038**  
Option 1 ID : **21340936150**  
Option 2 ID : **21340936152**  
Option 3 ID : **21340936151**  
Option 4 ID : **21340936149**  
Status : **Answered**  
Chosen Option : **4**

**Q.6**  
**7** If a capacitor is placed in the feedback path of an op-amp circuit, then the circuit can act as

- Ans
- ☒ 1. multiplier
  - ☒ 2. integrator
  - ☒ 3. divider
  - ☒ 4. subtractor

Question ID : **2134099070**  
Option 1 ID : **21340936280**  
Option 2 ID : **21340936279**  
Option 3 ID : **21340936278**  
Option 4 ID : **21340936277**  
Status : **Answered**  
Chosen Option : **2**

**Q.6**  
**8** Eddy current proximity sensors can detect \_\_\_\_\_.

- Ans
- ☒ 1. wood
  - ☒ 2. metal
  - ☒ 3. epoxy
  - ☒ 4. cotton

Question ID : 2134099098  
Option 1 ID : 21340936390  
Option 2 ID : 21340936389  
Option 3 ID : 21340936391  
Option 4 ID : 21340936392  
Status : Not Answered  
Chosen Option : --

Q.6 In an amplifier with a positive feedback circuit, gain:

- Ans
- ☒ 1. Increases
  - ☒ 2. first increases and then decreases
  - ☒ 3. Decreases
  - ☒ 4. remains constant

Question ID : 2134099053  
Option 1 ID : 21340936209  
Option 2 ID : 21340936212  
Option 3 ID : 21340936210  
Option 4 ID : 21340936211  
Status : Not Answered  
Chosen Option : --

Q.7 How many counter/timer does the 8051 microcontroller have?

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

Question ID : 2134099077  
Option 1 ID : 21340936307  
Option 2 ID : 21340936306  
Option 3 ID : 21340936308  
Option 4 ID : 21340936305  
Status : Not Answered  
Chosen Option : --

Q.7 The motor used in household refrigerators is

- Ans
- ☒ 1. dc series motor
  - ☒ 2. Reluctance motor
  - ☒ 3. single phase induction motor
  - ☒ 4. Hysteresis motor

Question ID : 2134099074

Option 1 ID : **21340936295**  
Option 2 ID : **21340936293**  
Option 3 ID : **21340936296**  
Option 4 ID : **21340936294**  
Status : **Answered**  
Chosen Option : **3**

Q.7  
2 The combination of two half adders is a \_\_\_\_\_.

- Ans
- ☒ 1. full adder
  - ☐ 2. half adder
  - ☐ 3. Comparator
  - ☐ 4. Schmitt trigger

Question ID : **2134099067**  
Option 1 ID : **21340936265**  
Option 2 ID : **21340936266**  
Option 3 ID : **21340936268**  
Option 4 ID : **21340936267**  
Status : **Answered**  
Chosen Option : **1**

Q.7  
3 How can a higher voltage be obtained from a solar cell?

- Ans
- ☐ 1. By connecting multiple cells in parallel
  - ☐ 2. By decreasing its thickness
  - ☐ 3. By increasing its thickness
  - ☒ 4. By connecting multiple cells in series

Question ID : **2134099087**  
Option 1 ID : **21340936348**  
Option 2 ID : **21340936346**  
Option 3 ID : **21340936345**  
Option 4 ID : **21340936347**  
Status : **Answered**  
Chosen Option : **4**

Q.7  
4 Most widely used solar cell material is

- Ans
- ☐ 1. Cast iron
  - ☐ 2. mercury
  - ☒ 3. silicon
  - ☐ 4. steel

Question ID : **2134099096**  
Option 1 ID : **21340936384**  
Option 2 ID : **21340936382**  
Option 3 ID : **21340936383**  
Option 4 ID : **21340936381**  
Status : **Answered**  
Chosen Option : **3**

**Q.7**  
**5** In case of an AC input signal in CE Transistor Load line can be given by a plot of

- Ans**
- ☒ 1.  $V_{BE}$  vs  $I_b$
  - ☒ 2.  $V_{CE}$  &  $R_c$
  - ☒ 3.  $V_{CE}$  &  $I_c$
  - ☒ 4.  $V_{BE}$  vs  $I_c$

Question ID : **2134099048**

Option 1 ID : **21340936192**

Option 2 ID : **21340936190**

Option 3 ID : **21340936189**

Option 4 ID : **21340936191**

Status : **Answered**

Chosen Option : **4**