



# 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:	12:30 PM - 3:00 PM
Subject:	Part A and Exam Trade : Heat Engine

- 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 If  $5x/3 - 7/2 (2x/5 - 1/3) = 1/3$ , then the value of x is \_\_\_\_\_.

- Ans
- 1. 25/8
  - 2. 5/14
  - 3. -5/14
  - 4. -25/8

Question ID : 7079669867  
Option 1 ID : 70796639466  
Option 2 ID : 70796639467  
Option 3 ID : 70796639468  
Option 4 ID : 70796639465  
Status : Answered  
Chosen Option : 4

Q.2 A vendor buys a certain number of bananas at 8 pieces for `5 and sells them at 5 pieces for `8. What will be his percentage profit?

- Ans
- 1. 40%
  - 2. 156%
  - 3. 144%
  - 4. 48%

Question ID : 7079669866  
Option 1 ID : 70796639461  
Option 2 ID : 70796639462  
Option 3 ID : 70796639463  
Option 4 ID : 70796639464  
Status : Answered  
Chosen Option : 2

Q.3 The \_\_\_\_\_ across the ends of a resistor is directly proportional to the current through it, provided its temperature remains the same.

- Ans  1. potential difference  
 2. resistance  
 3. resistivity  
 4. charge

Question ID : 7079669834  
Option 1 ID : 70796639335  
Option 2 ID : 70796639333  
Option 3 ID : 70796639334  
Option 4 ID : 70796639336  
Status : Answered  
Chosen Option : 1

Q.4 If a vendor sells a coconut at ₹32, he incurs a 20% loss. What is the cost price of the coconut?

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

Question ID : 7079669865  
Option 1 ID : 70796639460  
Option 2 ID : 70796639459  
Option 3 ID : 70796639458  
Option 4 ID : 70796639457  
Status : Answered  
Chosen Option : 3

Q.5 A statement is given, followed by two conclusions. Decide which of the given conclusions logically follow(s) from the given statement.

**Statement:**

Emotional Quotient is a good predictor of success in career.

**Conclusions:**

I: The top 10 employees in a division will have the top 10 Emotional Quotients.

II: Finding the Emotional Quotient of a candidate will give the hiring company extra useful information.

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

Question ID : 7079669900  
Option 1 ID : 70796639598  
Option 2 ID : 70796639597  
Option 3 ID : 70796639599  
Option 4 ID : 70796639600  
Status : Not Answered  
Chosen Option : --

Q.6 Binary number 101110110 is equal to decimal number \_\_\_\_\_.

- Ans
- 1. 412
  - 2. 374
  - 3. 468
  - 4. 326

Question ID : 7079669851  
Option 1 ID : 70796639402  
Option 2 ID : 70796639403  
Option 3 ID : 70796639404  
Option 4 ID : 70796639401  
Status : Answered  
Chosen Option : 2

Q.7 Find the density (in  $\text{kg/m}^3$ ) of a piece of wood of dimensions  $6\text{ cm} \times 8\text{ cm} \times 5\text{ cm}$ , and weight  $1.92\text{ N}$ . (Use  $g=10\text{m/s}^2$ )

- Ans
- 1. 3,000
  - 2. 300
  - 3. 8,000
  - 4. 800

Question ID : 7079669829  
Option 1 ID : 70796639314  
Option 2 ID : 70796639315  
Option 3 ID : 70796639313  
Option 4 ID : 70796639316  
Status : Answered  
Chosen Option : 4

Q.8 Paracetamol is found in first-aid boxes. When/why should these drugs be taken?

- Ans
- 1. To bring relief from asthma.
  - 2. To ease indigestion and heartburn.
  - 3. To ease the symptoms of hay fever and other allergies.
  - 4. To ease mild pain and reduce high temperature (fever).

Question ID : 7079669842  
Option 1 ID : 70796639366  
Option 2 ID : 70796639367  
Option 3 ID : 70796639365  
Option 4 ID : 70796639368  
Status : Answered  
Chosen Option : 4

Q.9 Find the resistance of the wire (in  $\text{k}\Omega$ ) through which a  $5\text{ mA}$  current flows when  $500\text{ V}$  of potential difference is applied across it.

- Ans
- 1. 2,500
  - 2. 1,00,000
  - 3. 100

~~X~~ 4. 2.5

Question ID : 7079669837  
Option 1 ID : 70796639348  
Option 2 ID : 70796639345  
Option 3 ID : 70796639346  
Option 4 ID : 70796639347  
Status : Answered  
Chosen Option : 2

Q.1 In an engineering drawing, which letters written on the dimension indicates that it is extra information and NOT really required?

- Ans
- ~~X~~ 1. NR
  - ~~X~~ 2. PER
  - ~~X~~ 3. EXT
  - ✓ 4. REF

Question ID : 7079669823  
Option 1 ID : 70796639291  
Option 2 ID : 70796639292  
Option 3 ID : 70796639289  
Option 4 ID : 70796639290  
Status : Not Answered  
Chosen Option : --

Q.1 Acceleration due to gravity is highest at \_\_\_\_\_.

- Ans
- ~~X~~ 1. the center of the earth
  - ~~X~~ 2. at an infinite distance from the earth
  - ~~X~~ 3. the equator
  - ✓ 4. the poles

Question ID : 7079669828  
Option 1 ID : 70796639311  
Option 2 ID : 70796639312  
Option 3 ID : 70796639309  
Option 4 ID : 70796639310  
Status : Answered  
Chosen Option : 4

Q.1 If A \$ B means A is the sister of B, A # B means A is the husband of B and A \* B means A is the daughter of B, then what does P \$ Q \* R # S mean?

- Ans
- ~~X~~ 1. S is the grandmother of P.
  - ✓ 2. S is the mother of P.
  - ~~X~~ 3. S is the sister of P.
  - ~~X~~ 4. S is the sister-in-law of P.

Question ID : 7079669884  
Option 1 ID : 70796639535  
Option 2 ID : 70796639536  
Option 3 ID : 70796639533  
Option 4 ID : 70796639534

Status : Answered  
Chosen Option : 2

Q.1  
3 Find the third proportional to 24 and 60.

- Ans
- 1. 150
  - 2. 120
  - 3. 164
  - 4. 144

Question ID : 7079669857  
Option 1 ID : 70796639426  
Option 2 ID : 70796639427  
Option 3 ID : 70796639428  
Option 4 ID : 70796639425  
Status : Not Answered  
Chosen Option : --

Q.1 Select the option that is related to the third word on the same basis as the second word is related to the first word. Paper:

4 Glue:: Brick : ?

- Ans
- 1. Mortar
  - 2. Mason
  - 3. Wall
  - 4. Stone

Question ID : 7079669876  
Option 1 ID : 70796639501  
Option 2 ID : 70796639504  
Option 3 ID : 70796639502  
Option 4 ID : 70796639503  
Status : Not Answered  
Chosen Option : --

Q.1 Breathing in about 900 parts of \_\_\_\_\_ in a million parts of air for a short time causes fatigue, dizziness, and headache.

5

- Ans
- 1. chloroform
  - 2. asbestos particles
  - 3. arsenic
  - 4. pesticides

Question ID : 7079669819  
Option 1 ID : 70796639274  
Option 2 ID : 70796639273  
Option 3 ID : 70796639275  
Option 4 ID : 70796639276  
Status : Answered  
Chosen Option : 1

Q.1  
6

In this question, two statements are given, followed by two conclusions labelled I and II. You have to consider the statements to be true even if they seem to be at variance with commonly known facts, and decide which of the given conclusions, if any, follow(s) from the given statements.

**Statements:**

No beakers are vases.  
All vases are jugs.

**Conclusions:**

I: Some jugs are beakers.  
II: Some jugs are vases.

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

Question ID : 7079669888  
Option 1 ID : 70796639549  
Option 2 ID : 70796639550  
Option 3 ID : 70796639552  
Option 4 ID : 70796639551  
Status : Answered  
Chosen Option : 2

Q.1 In this question, two statements are given, followed by three conclusions labelled I, II and III. You have to consider the statements to be true even if they seem to be at variance with commonly known facts, and decide which of the given conclusions, if any, follow(s) from the given statements.

7

**Statements:**

All mansions are palaces.  
No castles are palaces.

**Conclusions:**

I: Some palaces are mansions.  
II: Some castles are mansions.  
III: No mansions are castles.

- Ans  1. All the conclusions, I, II and III, follow.  
 2. Only conclusion I follows.  
 3. Only conclusion I and III follow.  
 4. Only conclusion III follows.

Question ID : 7079669889  
Option 1 ID : 70796639556  
Option 2 ID : 70796639553  
Option 3 ID : 70796639555  
Option 4 ID : 70796639554  
Status : Answered  
Chosen Option : 2

Q.1 Two litres of superheated water at  $190^{\circ}\text{C}$  is mixed with six litres of cold water at  $20^{\circ}\text{C}$ . Find the final equilibrium temperature (in  $^{\circ}\text{C}$ ) if no heat is lost.

8

- Ans  1. 55  
 2. 47.5

3. 95  
 4. 62.5

Question ID : 7079669841  
Option 1 ID : 70796639363  
Option 2 ID : 70796639362  
Option 3 ID : 70796639364  
Option 4 ID : 70796639361  
Status : Answered  
Chosen Option : 4

Q.1  
9 Which of the following is NOT a derived unit?

- Ans  1. Radian  
 2. Lumen  
 3. Volt  
 4. Mole

Question ID : 7079669826  
Option 1 ID : 70796639301  
Option 2 ID : 70796639302  
Option 3 ID : 70796639303  
Option 4 ID : 70796639304  
Status : Answered  
Chosen Option : 4

Q.2  
0 Classical musician Vilayat Khan is associated with which musical instrument?

- Ans  1. Santoor  
 2. Sarod  
 3. Sitar  
 4. Flute

Question ID : 7079669809  
Option 1 ID : 70796639234  
Option 2 ID : 70796639233  
Option 3 ID : 70796639235  
Option 4 ID : 70796639236  
Status : Answered  
Chosen Option : 3

Q.2  
1 A block of metal of mass 500 g has a relative density of 2.5. What will be its apparent mass when it is fully immersed in water?

- Ans  1. 300 g  
 2. 250 g  
 3. 200 g  
 4. 400 g

Question ID : 7079669839  
Option 1 ID : 70796639353  
Option 2 ID : 70796639355

Option 3 ID : 70796639354  
Option 4 ID : 70796639356  
Status : Not Answered  
Chosen Option : --

Q.2 In an artificial language, 'terake' means 'motherland', 'lorake' means 'mother tongue' and 'loroli' means 'long tongue'.

2 Which word would mean 'long jump' in that language?

- Ans
- 1. hudter
  - 2. akezit
  - 3. dibnol
  - 4. nemoli

Question ID : 7079669881  
Option 1 ID : 70796639523  
Option 2 ID : 70796639524  
Option 3 ID : 70796639522  
Option 4 ID : 70796639521  
Status : Not Answered  
Chosen Option : --

Q.2  
3 What is the area (in  $\text{cm}^2$ ) of a regular hexagon of side 10 cm?

- Ans
- 1.  $75\sqrt{3}$
  - 2.  $300\sqrt{3}$
  - 3.  $450\sqrt{3}$
  - 4.  $150\sqrt{3}$

Question ID : 7079669859  
Option 1 ID : 70796639433  
Option 2 ID : 70796639435  
Option 3 ID : 70796639436  
Option 4 ID : 70796639434  
Status : Not Answered  
Chosen Option : --

Q.2  
4 If 90 J of work is done in moving a charge of 2,000 coulombs across V volts, find V.

- Ans
- 1. 0.2
  - 2. 2,250
  - 3. 0.045
  - 4. 180

Question ID : 7079669836  
Option 1 ID : 70796639344  
Option 2 ID : 70796639343  
Option 3 ID : 70796639341  
Option 4 ID : 70796639342  
Status : Answered  
Chosen Option : 3

Q.2 Choose the word that is different from the rest.

5

- Ans
- 1. Pond
  - 2. Stream
  - 3. Pool
  - 4. Lake

Question ID : 7079669892  
Option 1 ID : 70796639565  
Option 2 ID : 70796639568  
Option 3 ID : 70796639567  
Option 4 ID : 70796639566  
Status : Answered  
Chosen Option : 2

Q.2  
6 Find the efficiency of a pump (rated 400 W) that can lift 500 kg of water by 30 m in 10 minutes. (Use  $g = 10\text{m/s}^2$ )

- Ans
- 1. 84.00%
  - 2. 62.50%
  - 3. 77.50%
  - 4. 92.00%

Question ID : 7079669811  
Option 1 ID : 70796639241  
Option 2 ID : 70796639243  
Option 3 ID : 70796639242  
Option 4 ID : 70796639244  
Status : Not Answered  
Chosen Option : --

Q.2  
7 Henry Cavendish discovered \_\_\_\_\_ in 1766.

- Ans
- 1. oxygen
  - 2. helium
  - 3. hydrogen
  - 4. chlorine

Question ID : 7079669805  
Option 1 ID : 70796639220  
Option 2 ID : 70796639219  
Option 3 ID : 70796639218  
Option 4 ID : 70796639217  
Status : Not Answered  
Chosen Option : --

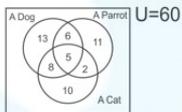
Q.2  
8 Find the mass (in g) of a copper calorimeter if its temperature rises by  $45^\circ$  when it absorbs 3.6 kJ of heat. The specific heat capacity of copper is  $0.4\text{ Jg}^{-1}\text{K}^{-1}$ .

- Ans
- 1. 200
  - 2. 500
  - 3. 405
  - 4. 648

Question ID : 7079669833  
Option 1 ID : 70796639329  
Option 2 ID : 70796639332  
Option 3 ID : 70796639331  
Option 4 ID : 70796639330  
Status : Not Answered  
Chosen Option : --

Q.2 The given Venn diagram shows the pet(s) that each house in a society has. How many houses have only two pets?

9



- Ans
- 1. 15
  - 2. 16
  - 3. 21
  - 4. 5

Question ID : 7079669887  
Option 1 ID : 70796639548  
Option 2 ID : 70796639546  
Option 3 ID : 70796639547  
Option 4 ID : 70796639545  
Status : Answered  
Chosen Option : 2

Q.3 \_\_\_\_\_ is India's sole National Issuing & Guaranteeing Association for ATA Carnets (also known as 'Passport for Goods').

0

- Ans
- 1. Federation of Indian Chambers of Commerce & Industry
  - 2. International Resources for Fairer Trade
  - 3. Confederation of Indian Industry
  - 4. All India Management Association

Question ID : 7079669803  
Option 1 ID : 70796639212  
Option 2 ID : 70796639210  
Option 3 ID : 70796639209  
Option 4 ID : 70796639211  
Status : Not Answered  
Chosen Option : --

Q.3 Henry per meter is the unit of \_\_\_\_\_.

1

- Ans
- 1. permeability
  - 2. permittivity
  - 3. watt per steradian
  - 4. electric conductance

Question ID : 7079669827  
Option 1 ID : 70796639308  
Option 2 ID : 70796639305

Option 3 ID : 70796639307  
Option 4 ID : 70796639306  
Status : Answered  
Chosen Option : 1

Q.3 A car loses 200 kJ of kinetic energy when its speed decreases from 25 m/s to 15 m/s. Find its mass in tonnes.

2

- Ans
- 1. 2.5
  - 2. 1
  - 3. 1.5
  - 4. 2

Question ID : 7079669843  
Option 1 ID : 70796639371  
Option 2 ID : 70796639372  
Option 3 ID : 70796639370  
Option 4 ID : 70796639369  
Status : Answered  
Chosen Option : 2

Q.3 Which of the following gives the correct relation between power 'P', resistance 'R' and charge 'Q' flowing through a wire in 't' seconds?

3

- Ans
- 1.  $PQ = IRt$
  - 2.  $PI = QRt$
  - 3.  $Pt = IRQ$
  - 4.  $PR = QIt$

Question ID : 7079669814  
Option 1 ID : 70796639253  
Option 2 ID : 70796639255  
Option 3 ID : 70796639254  
Option 4 ID : 70796639256  
Status : Answered  
Chosen Option : 3

Q.3 Solve the following.

4

$$\sqrt{0.2025} + \sqrt{0.12225} = \underline{\hspace{2cm}}$$

- Ans
- 1. 0.8
  - 2. 0.6
  - 3. 0.9
  - 4. 1.2

Question ID : 7079669872  
Option 1 ID : 70796639485  
Option 2 ID : 70796639487  
Option 3 ID : 70796639488  
Option 4 ID : 70796639486  
Status : Answered  
Chosen Option : 4

Q.3 Two resistors of  $R \Omega$  and  $15 \Omega$  are connected in parallel to get an effective resistance of  $12 \Omega$ . Find  $R$ .

5

- Ans  1. 60  
 2. 45  
 3. 30  
 4. 75

Question ID : 7079669835  
Option 1 ID : 70796639339  
Option 2 ID : 70796639338  
Option 3 ID : 70796639337  
Option 4 ID : 70796639340  
Status : Answered  
Chosen Option : 1

Q.3 Which of the following is an example of a second class lever?

6

- Ans  1. See-saw  
 2. Ice tongs  
 3. Wheel barrow  
 4. Pliers

Question ID : 7079669846  
Option 1 ID : 70796639382  
Option 2 ID : 70796639383  
Option 3 ID : 70796639384  
Option 4 ID : 70796639381  
Status : Answered  
Chosen Option : 3

Q.3 If 1,200 J of work is done in pushing a trolley by 20 m, what was the force (in N) employed?

7

- Ans  1. 90  
 2. 60  
 3. 30  
 4. 120

Question ID : 7079669817  
Option 1 ID : 70796639267  
Option 2 ID : 70796639266  
Option 3 ID : 70796639268  
Option 4 ID : 70796639265  
Status : Answered  
Chosen Option : 2

Q.3 Two cabs A and B start from town C for town D. If the distance between the two towns is 540 km and the slower taxi travelling at an average speed of 90 km/hr takes an hour more than the faster taxi, then find the speed (in km/hr) of the faster taxi.

8

- Ans  1. 99  
 2. 108  
 3. 117  
 4. 126

Question ID : 7079669831  
Option 1 ID : 70796639321  
Option 2 ID : 70796639323  
Option 3 ID : 70796639322  
Option 4 ID : 70796639324  
Status : Not Answered  
Chosen Option : --

**Q.3** A pilgrim starts from her house to visit various places. She walks 13 km towards the east, then turns towards the north and walks 11 km, then turns towards the west and walks 7 km, then turns towards the south and walks 6 km and finally turns to her right and walks 6 km. Where is she now with respect to her starting position?

- Ans**
- 1. 16 km south
  - 2. 5 km north
  - 3. 5 km south
  - 4. 16 km north

Question ID : 7079669893  
Option 1 ID : 70796639571  
Option 2 ID : 70796639572  
Option 3 ID : 70796639569  
Option 4 ID : 70796639570  
Status : Answered  
Chosen Option : 2

**Q.4** The sentences given in this question, when properly sequenced, form a coherent paragraph. Each sentence is labelled with a letter (the first sentence is not labelled and given for your reference). Choose the most logical order of sentences from among the given choices to construct a coherent paragraph.

There were once two brothers who lived on the edge of a forest.

A: One day, the elder brother went into the forest to find some firewood to sell in the market.

B: As he went around chopping the branches of a tree after tree, he came upon a magical tree.

C: The elder brother was very mean to his younger brother and ate up all the food and took all his good clothes.

D: The tree said to him, 'Oh kind sir, please do NOT cut my branches.'

- Ans**
- 1. CABD
  - 2. ACDB
  - 3. ACBD
  - 4. CADB

Question ID : 7079669898  
Option 1 ID : 70796639589  
Option 2 ID : 70796639592  
Option 3 ID : 70796639591  
Option 4 ID : 70796639590  
Status : Answered  
Chosen Option : 1

**Q.4** Pipe A can fill a tank in 12 hours. Pipe B can empty it in X hours. If both the pipes are opened together, then the tank will be filled in 30 hours. Find X.

- Ans**
- 1. 24
  - 2. 15
  - 3. 20
  - 4. 25

Question ID : 7079669875  
Option 1 ID : 70796639499  
Option 2 ID : 70796639497  
Option 3 ID : 70796639500  
Option 4 ID : 70796639498  
Status : Answered  
Chosen Option : 3

Q.4  
2 If  $a^2 + b^2 = 53$  and  $ab = 14$ , then find the value of  $a + b$ .

- Ans
- 1. 5
  - 2. 12
  - 3. 9
  - 4. 15

Question ID : 7079669868  
Option 1 ID : 70796639471  
Option 2 ID : 70796639472  
Option 3 ID : 70796639470  
Option 4 ID : 70796639469  
Status : Answered  
Chosen Option : 3

Q.4  
3 From a 50-m-long steel bar, a workman has to cut off as many 5.25-m-long pieces as possible. What decimal fraction of the whole will be left?

- Ans
- 1. 0.035
  - 2. 0.025
  - 3. 0.055
  - 4. 0.045

Question ID : 7079669854  
Option 1 ID : 70796639416  
Option 2 ID : 70796639414  
Option 3 ID : 70796639413  
Option 4 ID : 70796639415  
Status : Answered  
Chosen Option : 3

Q.4  
4 The sum of binary numbers 1100100 and 1101110 is \_\_\_\_\_.

- Ans
- 1. 11110010
  - 2. 11001000
  - 3. 11010010
  - 4. 11100110

Question ID : 7079669852  
Option 1 ID : 70796639408  
Option 2 ID : 70796639406  
Option 3 ID : 70796639407  
Option 4 ID : 70796639405  
Status : Answered  
Chosen Option : 2

Q.4 A train running at a speed of 64 km/h takes 50 min to travel a certain distance. By how much should it increase its speed  
5 (in km/h) to travel the same distance in 40 min?

- Ans
- 1. 80
  - 2. 25
  - 3. 10
  - 4. 16

Question ID : 7079669863  
Option 1 ID : 70796639450  
Option 2 ID : 70796639452  
Option 3 ID : 70796639451  
Option 4 ID : 70796639449  
Status : Answered  
Chosen Option : 4

Q.4 The notation  $2 \times O6$  means \_\_\_\_\_.  
6

- Ans
- 1. Scale the circle of radius 6 units by a factor of 2
  - 2. Scale the circle of diameter 6 units by a factor of 2
  - 3. 2 circles of radius 6 units
  - 4. 2 circles of diameter 6 units

Question ID : 7079669815  
Option 1 ID : 70796639260  
Option 2 ID : 70796639259  
Option 3 ID : 70796639257  
Option 4 ID : 70796639258  
Status : Answered  
Chosen Option : 2

Q.4 Amit calculated  $\frac{2}{5}$ th of a number instead of calculating  $\frac{2}{15}$ th. His answer was greater than the correct answer by 336.  
7 Find the number.

- Ans
- 1. 1008
  - 2. 1260
  - 3. 1344
  - 4. 1680

Question ID : 7079669855  
Option 1 ID : 70796639419  
Option 2 ID : 70796639418  
Option 3 ID : 70796639420  
Option 4 ID : 70796639417  
Status : Answered  
Chosen Option : 2

Q.4 The Directive Principles of State Policy in India's Constitution are borrowed from the constitution of \_\_\_\_\_.  
8

- Ans
- 1. Canada
  - 2. Britain
  - 3. Ireland

4. Germany

Question ID : 7079669801  
Option 1 ID : 70796639202  
Option 2 ID : 70796639201  
Option 3 ID : 70796639204  
Option 4 ID : 70796639203  
Status : Answered  
Chosen Option : 2

Q.4  
9 The total surface area of a cuboid is  $236 \text{ cm}^2$ . Its length is 8 cm and height is 6 cm. Find its breadth (in cm).

- Ans  1. 7  
 2. 9  
 3. 4  
 4. 5

Question ID : 7079669860  
Option 1 ID : 70796639437  
Option 2 ID : 70796639438  
Option 3 ID : 70796639439  
Option 4 ID : 70796639440  
Status : Answered  
Chosen Option : 4

Q.5  
0 If  $\sin \theta = 12/13$ , then find the value of  $2\cot \theta + 13\cos \theta$ .

- Ans  1.  $5/8$   
 2.  $35/6$   
 3.  $25/6$   
 4.  $15/8$

Question ID : 7079669870  
Option 1 ID : 70796639480  
Option 2 ID : 70796639479  
Option 3 ID : 70796639477  
Option 4 ID : 70796639478  
Status : Answered  
Chosen Option : 2

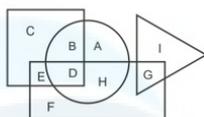
Q.5  
1 \_\_\_\_\_ ° Celsius = 167 Fahrenheit

- Ans  1. 75  
 2. 348  
 3. 103  
 4. 198

Question ID : 7079669845  
Option 1 ID : 70796639377  
Option 2 ID : 70796639379  
Option 3 ID : 70796639378  
Option 4 ID : 70796639380  
Status : Answered

Chosen Option : 1

- Q.5 In the following figure, the triangle represents bakers, the square represents teachers, the circle represents Americans  
2 and the rectangle represents mothers. Which letter or set of letters represents the mothers who are neither Americans nor bakers?



- Ans  1. EF  
 2. I  
 3. C  
 4. A

Question ID : 7079669886

Option 1 ID : 70796639544

Option 2 ID : 70796639542

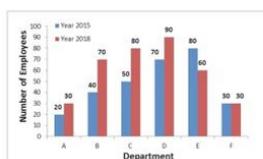
Option 3 ID : 70796639541

Option 4 ID : 70796639543

Status : Answered

Chosen Option : 1

- Q.5 A company has six departments. The given bar graph shows the number of employees in each department for the years  
3 2015 and 2018. The company added 80 new employees and fired some employees between the years 2015 and 2018. All the employees who were fired were from department C. If the employees of department C had NOT been fired, then the employee strength of department C in 2018 would have been greater by \_\_\_\_\_.



- Ans  1. 10%  
 2. 20%  
 3. 17.5%  
 4. 12.5%

Question ID : 7079669895

Option 1 ID : 70796639577

Option 2 ID : 70796639580

Option 3 ID : 70796639579

Option 4 ID : 70796639578

Status : Not Answered

Chosen Option : --

- Q.5 The specific latent heat of fusion of ethyl alcohol is  $100 \text{ Jg}^{-1}$ . Find the heat absorbed (in J) by 2.25 g of ethyl alcohol  
4 when it melts at its melting point of  $-114^\circ\text{C}$ .

- Ans  1. 100  
 2. 225  
 3. 45  
 4. 311

Question ID : 7079669813

Option 1 ID : 70796639252  
Option 2 ID : 70796639251  
Option 3 ID : 70796639249  
Option 4 ID : 70796639250  
Status : Not Answered  
Chosen Option : --

Q.5 Find the heat capacity of a steel vessel of mass 2.5 kg if its temperature rises by 10 degrees. Specific heat capacity of steel is  $500 \text{ Jkg}^{-1}\text{K}^{-1}$ .

- Ans
- 1.  $200 \text{ Jkg}^{-1}\text{K}^{-1}$
  - 2.  $125 \text{ JK}^{-1}$
  - 3.  $1,250 \text{ JK}^{-1}$
  - 4.  $20 \text{ Jkg}^{-1}\text{K}^{-1}$

Question ID : 7079669832  
Option 1 ID : 70796639326  
Option 2 ID : 70796639327  
Option 3 ID : 70796639325  
Option 4 ID : 70796639328  
Status : Not Answered  
Chosen Option : --

Q.5 \_\_\_\_\_ are a subset of air pollution that refers to the tiny particles suspended everywhere in our atmosphere.

- Ans
- 1. Genomes
  - 2. Aerosols
  - 3. Loam
  - 4. Humus

Question ID : 7079669849  
Option 1 ID : 70796639394  
Option 2 ID : 70796639393  
Option 3 ID : 70796639396  
Option 4 ID : 70796639395  
Status : Answered  
Chosen Option : 2

Q.5 One statement is given followed by two assumptions labelled I and II. You have to consider the statement to be true, even if it seems to be at variance with commonly known facts, and decide which of the given assumptions is/are implicit in the given statement.

Statement:

'Height should be between 5 feet 6 inches and 6 feet.' – One of the conditions for recruiting fighter pilots.

Assumptions:

- I. Fighter pilots should be presentable as they are role models for the young.
- II. Only certain body types can fit in a fighter plane cockpit.

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

✓ 4. Only assumption II is implicit.

Question ID : 7079669894  
Option 1 ID : 70796639575  
Option 2 ID : 70796639576  
Option 3 ID : 70796639573  
Option 4 ID : 70796639574  
Status : Answered  
Chosen Option : 1

Q.5 By cycling  $\frac{7}{9}$  times his usual speed, Anwar reaches his school 4 minutes late. How many minutes does Anwar take to reach school at his usual cycling speed?

- Ans
- ✗ 1. 18
  - ✓ 2. 14
  - ✗ 3. 16
  - ✗ 4. 20

Question ID : 7079669840  
Option 1 ID : 70796639359  
Option 2 ID : 70796639358  
Option 3 ID : 70796639357  
Option 4 ID : 70796639360  
Status : Answered  
Chosen Option : 2

Q.5 Find the value of:

$$16 - (25\% \text{ of } (14 \times 10 \div 35 + 12 \times 10 \div 15))$$

- Ans
- ✗ 1. 9
  - ✓ 2. 13
  - ✗ 3. 11
  - ✗ 4. 7

Question ID : 7079669853  
Option 1 ID : 70796639410  
Option 2 ID : 70796639412  
Option 3 ID : 70796639409  
Option 4 ID : 70796639411  
Status : Answered  
Chosen Option : 2

Q.6 L is thrice as good a workman as M, and together, they finish a task in 12 days. In how many days will L alone finish the same task?

- Ans
- ✓ 1. 16
  - ✗ 2. 48
  - ✗ 3. 40
  - ✗ 4. 32

Question ID : 7079669861  
Option 1 ID : 70796639443  
Option 2 ID : 70796639441  
Option 3 ID : 70796639444

Option 4 ID : 70796639442  
Status : Answered  
Chosen Option : 1

Q.6 Which of the following classes of chemicals can damage the ozone layer?

1

- Ans
- 1. Chlorofluorocarbons
  - 2. Antimicrobials
  - 3. Phenols
  - 4. Aromatic compounds

Question ID : 7079669848  
Option 1 ID : 70796639392  
Option 2 ID : 70796639390  
Option 3 ID : 70796639391  
Option 4 ID : 70796639389  
Status : Answered  
Chosen Option : 1

Q.6 If the compound interest received on a certain amount in the first year is ₹1,440, what will be the compound interest for the second year on the same principal at a 10% rate of interest?

2

- Ans
- 1. ₹1,554
  - 2. ₹1,512
  - 3. ₹1,540
  - 4. ₹1,584

Question ID : 7079669864  
Option 1 ID : 70796639453  
Option 2 ID : 70796639456  
Option 3 ID : 70796639455  
Option 4 ID : 70796639454  
Status : Answered  
Chosen Option : 4

Q.6 The weights of three boxes are 3 kg, 8 kg and 12 kg. Which of the following CANNOT be the total weight, in kg, of any combination of these boxes?

3

- Ans
- 1. 20
  - 2. 21
  - 3. 23
  - 4. 15

Question ID : 7079669899  
Option 1 ID : 70796639594  
Option 2 ID : 70796639595  
Option 3 ID : 70796639596  
Option 4 ID : 70796639593  
Status : Answered  
Chosen Option : 2

Q.6 The hotel Taj Lake Palace, built in the middle of Lake Pichola, is in which city?

4

- Ans  1. Udaipur  
 2. Jodhpur  
 3. Jaipur  
 4. Bikaner

Question ID : 7079669808  
Option 1 ID : 70796639229  
Option 2 ID : 70796639230  
Option 3 ID : 70796639231  
Option 4 ID : 70796639232  
Status : Answered  
Chosen Option : 3

Q.6 In a certain gear train, the driver has 24 teeth while the follower has 8 teeth. For every \_\_\_\_\_ turns of the driver, the  
5 follower turns 36 times.

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

Question ID : 7079669818  
Option 1 ID : 70796639272  
Option 2 ID : 70796639271  
Option 3 ID : 70796639270  
Option 4 ID : 70796639269  
Status : Answered  
Chosen Option : 3

Q.6 Two numbers are 10% and 20% less than a third number. By what percentage should the second number be increased to  
6 make it equal to the first number?

- Ans  1. 7.5%  
 2. 12.5%  
 3. 10%  
 4. 8%

Question ID : 7079669858  
Option 1 ID : 70796639432  
Option 2 ID : 70796639431  
Option 3 ID : 70796639429  
Option 4 ID : 70796639430  
Status : Answered  
Chosen Option : 2

Q.6 A uniform meter scale weighs 50g. It is pivoted at the 70cm mark. Where should a 40 g mass be placed so that the scale  
7 is in equilibrium?

- Ans  1. At the 45 cm mark  
 2. At the 5 cm mark  
 3. At the 25 cm mark  
 4. At the 95 cm mark

Question ID : 7079669822

Option 1 ID : 70796639285

Option 2 ID : 70796639286

Option 3 ID : 70796639287

Option 4 ID : 70796639288

Status : Not Answered

Chosen Option : --

Q.6 A \_\_\_\_\_ projection is an oblique projection in which the depth of the object is shown in full size.

8

Ans  1. perspective

2. fisheye

3. cavalier

4. orthographic

Question ID : 7079669825

Option 1 ID : 70796639297

Option 2 ID : 70796639300

Option 3 ID : 70796639299

Option 4 ID : 70796639298

Status : Answered

Chosen Option : 1

Q.6 Find the least common multiple of 56 and 50.

9

Ans  1. 1400

2. 1500

3. 700

4. 800

Question ID : 7079669856

Option 1 ID : 70796639423

Option 2 ID : 70796639424

Option 3 ID : 70796639421

Option 4 ID : 70796639422

Status : Answered

Chosen Option : 1

Q.7 Find the missing number in the given series.

0

-2.7, -2.1, -1.5, -0.9, -0.3, ?

Ans  1. 0.2

2. 0.3

3. 0.4

4. 0.5

Question ID : 7079669879

Option 1 ID : 70796639515

Option 2 ID : 70796639516

Option 3 ID : 70796639513

Option 4 ID : 70796639514

Status : Answered  
Chosen Option : 2

Q.7 In a certain code, EXACT is written as 91685 and MILK is written as 7243. Using the same code, MELT will be written  
1 as \_\_\_\_\_.

- Ans
- 1. 8794
  - 2. 7945
  - 3. 9285
  - 4. 5384

Question ID : 7079669880  
Option 1 ID : 70796639518  
Option 2 ID : 70796639520  
Option 3 ID : 70796639519  
Option 4 ID : 70796639517  
Status : Answered  
Chosen Option : 2

Q.7 A truck travels 450 km in two and a half hours. Find its speed in m/s.  
2

- Ans
- 1. 50
  - 2. 75
  - 3. 90
  - 4. 60

Question ID : 7079669844  
Option 1 ID : 70796639376  
Option 2 ID : 70796639374  
Option 3 ID : 70796639375  
Option 4 ID : 70796639373  
Status : Answered  
Chosen Option : 1

Q.7 Find the mass (in kg) of kerosene filled up to the brim in a tank of dimensions  $5\text{ m} \times 2\text{ m} \times 1\text{ m}$ . (Density of kerosene is  
3  $800\text{ kg/m}^3$ )

- Ans
- 1. 12,500
  - 2. 800
  - 3. 1,250
  - 4. 8,000

Question ID : 7079669816  
Option 1 ID : 70796639264  
Option 2 ID : 70796639261  
Option 3 ID : 70796639262  
Option 4 ID : 70796639263  
Status : Answered  
Chosen Option : 4

Q.7 The area of A0 size paper is \_\_\_\_\_.  
4

- Ans
- 1.  $100\text{ cm}^2$

2. 1 cm<sup>2</sup>

3. 10,000 cm<sup>2</sup>

4. 1,000 cm<sup>2</sup>

Question ID : 7079669812

Option 1 ID : 70796639246

Option 2 ID : 70796639247

Option 3 ID : 70796639245

Option 4 ID : 70796639248

Status : Answered

Chosen Option : 3

Q.7  
5 Choose the figure that is different from the rest.

Ans

1.

Q	M	R
X	H	O
K	W	P

2.

K	W	Q
R	O	P
I	M	X

3.

H	X	P
O	R	K
W	Q	M

4.

P	O	R
M	W	K
H	X	Q

Question ID : 7079669890

Option 1 ID : 70796639557

Option 2 ID : 70796639558

Option 3 ID : 70796639559  
Option 4 ID : 70796639560  
Status : **Not Answered**  
Chosen Option : --

Q.7 Which of the following nations is NOT a permanent member of the United Nations Security Council?

6

- Ans
- 1. France
  - 2. Germany
  - 3. United Kingdom
  - 4. China

Question ID : 7079669802  
Option 1 ID : 70796639206  
Option 2 ID : 70796639205  
Option 3 ID : 70796639207  
Option 4 ID : 70796639208  
Status : **Answered**  
Chosen Option : 2

Q.7 Select the option that is related to the third word on the same basis as the second word is related to the first word. Pipe:

7

Cylinder:: Moon : ?

- Ans
- 1. Earth
  - 2. Sphere
  - 3. Night
  - 4. Stars

Question ID : 7079669877  
Option 1 ID : 70796639505  
Option 2 ID : 70796639506  
Option 3 ID : 70796639507  
Option 4 ID : 70796639508  
Status : **Answered**  
Chosen Option : 2

Q.7 Who was the captain of the IPL team Chennai Super Kings, in 2018?

8

- Ans
- 1. Mahendra Singh Dhoni
  - 2. Virat Kohli
  - 3. Rohit Sharma
  - 4. Gautam Gambhir

Question ID : 7079669807  
Option 1 ID : 70796639226  
Option 2 ID : 70796639225  
Option 3 ID : 70796639228  
Option 4 ID : 70796639227  
Status : **Answered**  
Chosen Option : 1

Q.7 A \_\_\_\_\_ diagram is a schematic drawing that shows the relationships in a system, using simple shapes for the entities.

9

- Ans
- 1. Venn
  - 2. circuit
  - 3. scatter
  - 4. block

Question ID : 7079669824  
Option 1 ID : 70796639294  
Option 2 ID : 70796639296  
Option 3 ID : 70796639293  
Option 4 ID : 70796639295  
Status : Answered  
Chosen Option : 1

Q.8 A boy of 50 kg is riding a scooter of 100 kg mass at a speed of  $v$  m/s. Find  $v$  (in m/s) if the kinetic energy of the scooter and the boy is 76.8 kJ.

- Ans
- 1. 32
  - 2. 80
  - 3. 40
  - 4. 64

Question ID : 7079669830  
Option 1 ID : 70796639318  
Option 2 ID : 70796639320  
Option 3 ID : 70796639319  
Option 4 ID : 70796639317  
Status : Not Answered  
Chosen Option : --

Q.8 Moore's Law is a rule of thumb stated by Intel co-founder Gordon Moore that the number of transistors on a chip doubles every \_\_\_\_\_ months.

- Ans
- 1. 18
  - 2. 24
  - 3. 12
  - 4. 30

Question ID : 7079669820  
Option 1 ID : 70796639277  
Option 2 ID : 70796639279  
Option 3 ID : 70796639278  
Option 4 ID : 70796639280  
Status : Not Answered  
Chosen Option : --

Q.8 Find the slope of the line joining the points (3,-4) and (5,2).

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

Question ID : 7079669869

Option 1 ID : 70796639475

Option 2 ID : 70796639476

Option 3 ID : 70796639474

Option 4 ID : 70796639473

Status : Answered

Chosen Option : 1

Q.8  
3 C said to D, "You are my sister's husband's mother-in-law." How is D related to C?

- Ans
- 1. D is the mother-in-law of C.
  - 2. D is the mother of C.
  - 3. D is the sister of C.
  - 4. D is the daughter of C.

Question ID : 7079669885

Option 1 ID : 70796639540

Option 2 ID : 70796639537

Option 3 ID : 70796639538

Option 4 ID : 70796639539

Status : Answered

Chosen Option : 2

Q.8  
4 Choose the letter cluster that is different from the rest.

- Ans
- 1. EFG
  - 2. KLM
  - 3. MOQ
  - 4. RST

Question ID : 7079669891

Option 1 ID : 70796639562

Option 2 ID : 70796639561

Option 3 ID : 70796639564

Option 4 ID : 70796639563

Status : Answered

Chosen Option : 3

Q.8  
5 Which of the following folk dances is from Himachal Pradesh?

- Ans
- 1. Bagurumba
  - 2. Nati
  - 3. Giddha
  - 4. Lezim

Question ID : 7079669810

Option 1 ID : 70796639237

Option 2 ID : 70796639239

Option 3 ID : 70796639238

Option 4 ID : 70796639240

Status : Answered

Chosen Option : 2

Q.8  
6 Pie chart 1 shows the share of the four partners (A, B, C and D) in Company XYZ in the year 2017. In 2018, a fifth partner, E, was added by issuing 5000 shares to E (pie chart 2). The company has issued \_\_\_\_\_ shares more in 2018 than those in 2017.

- Ans
- 1. 33.33%
  - 2. 25%
  - 3. 20%
  - 4. 16.67%

Question ID : 7079669896  
Option 1 ID : 70796639584  
Option 2 ID : 70796639581  
Option 3 ID : 70796639582  
Option 4 ID : 70796639583  
Status : Not Answered  
Chosen Option : --

Q.8  
7 Name the celebrity who has authored 'Mrs. Funnybones'?

- Ans
- 1. Bipasha Basu
  - 2. Shraddha Kapoor
  - 3. Sonakshi Sinha
  - 4. Twinkle Khanna

Question ID : 7079669806  
Option 1 ID : 70796639221  
Option 2 ID : 70796639223  
Option 3 ID : 70796639224  
Option 4 ID : 70796639222  
Status : Answered  
Chosen Option : 4

Q.8  
8 Select the set of letters that when sequentially placed in the gaps of the given letter series will complete the series logically.

a \_yz\_ bx\_ zc\_ cx\_ z

- Ans
- 1. yxcbz
  - 2. xybcz
  - 3. xybcy
  - 4. xbycy

Question ID : 7079669878  
Option 1 ID : 70796639511  
Option 2 ID : 70796639510  
Option 3 ID : 70796639509  
Option 4 ID : 70796639512  
Status : Answered  
Chosen Option : 4

Q.8  
9 If  $14 \# 2 = 80$ ,  $10 \# 4 = 70$  and  $20 \# 6 = 130$ , then find the value of  $8 \# 12$ .

- Ans
- 1. 100
  - 2. 2

3. 10

4. 4

Question ID : 7079669883

Option 1 ID : 70796639532

Option 2 ID : 70796639530

Option 3 ID : 70796639531

Option 4 ID : 70796639529

Status : Answered

Chosen Option : 1

Q.9 Which element is mostly provided by grains, nuts and chocolates in our diet?

0

Ans  1. Zinc

2. Iodine

3. Chloride

4. Copper

Question ID : 7079669847

Option 1 ID : 70796639385

Option 2 ID : 70796639386

Option 3 ID : 70796639387

Option 4 ID : 70796639388

Status : Answered

Chosen Option : 2

Q.9 Part of a sentence has been divided into three segments, which are jumbled up and given along with the unjumbled part.

1

Rearrange the parts of the sentence in correct order.

I'd just remembered that our

X: every once in a while, so our changing

Y: rooms were movable, on wheels

Z: owner liked to change the decor of the boutique

Ans  1. ZYX

2. ZXY

3. YXZ

4. XZY

Question ID : 7079669897

Option 1 ID : 70796639585

Option 2 ID : 70796639588

Option 3 ID : 70796639587

Option 4 ID : 70796639586

Status : Answered

Chosen Option : 2

Q.9 Acceleration due to gravity on Jupiter is two and a half times that on earth. How much would a 250 kg satellite weigh

2

(in N) on Jupiter? (acceleration due to gravity on earth =  $10\text{m/s}^2$ )

Ans  1. 6,250

2. 625

3. 10

4. 100

Question ID : 7079669821

Option 1 ID : 70796639283

Option 2 ID : 70796639282

Option 3 ID : 70796639284

Option 4 ID : 70796639281

Status : Answered

Chosen Option : 1

Q.9 If '+' represents '×', '÷' represents '+', '-' represents '÷' and 'x' represents '-', then find the value of the following expression.

$$8 + 4 \div 15 - 3 \times 1$$

Ans  1. 36

2. 17

3. 14

4. 10

Question ID : 7079669882

Option 1 ID : 70796639528

Option 2 ID : 70796639527

Option 3 ID : 70796639526

Option 4 ID : 70796639525

Status : Answered

Chosen Option : 1

Q.9 What is the angle between the hour hand and the minute hand of a clock at quarter past three?

Ans  1.  $7.5^\circ$

2.  $6.5^\circ$

3.  $9.5^\circ$

4.  $8.5^\circ$

Question ID : 7079669874

Option 1 ID : 70796639495

Option 2 ID : 70796639493

Option 3 ID : 70796639496

Option 4 ID : 70796639494

Status : Answered

Chosen Option : 1

Q.9 A alone can paint a wall in 50 days and B alone can do it in 10 days. If A, B and C together can paint the wall in 6.25 days, then in how many days can C alone paint the wall?

Ans  1. 40

2. 25

3. 15

4. 20

Question ID : 7079669862

Option 1 ID : 70796639447

Option 2 ID : 70796639448

Option 3 ID : 70796639446

Option 4 ID : 70796639445

Status : Answered

Chosen Option : 2

Q.9  
6 If the median of the numbers 9, 15, 1, 15, 14, 9, 4 and X is 11, find X.

- Ans
- 1. 12
  - 2. 11
  - 3. 13
  - 4. 10

Question ID : 7079669871  
Option 1 ID : 70796639481  
Option 2 ID : 70796639482  
Option 3 ID : 70796639484  
Option 4 ID : 70796639483  
Status : Answered  
Chosen Option : 3

Q.9  
7 Which Dadasaheb Phalke Award recipient produced and directed India's first colour film, 'Sairandhri'?

- Ans
- 1. LV Prasad
  - 2. Sivaji Ganesan
  - 3. Birendranath Sirdar
  - 4. V Shanta ram

Question ID : 7079669804  
Option 1 ID : 70796639214  
Option 2 ID : 70796639216  
Option 3 ID : 70796639215  
Option 4 ID : 70796639213  
Status : Not Answered  
Chosen Option : --

Q.9  
8 Find the mechanical advantage of a pulley system if it has an efficiency of 60%. The load lifts by 3 m when the rope is pulled by 12 m.

- Ans
- 1. 4.8
  - 2. 3.6
  - 3. 1.2
  - 4. 2.4

Question ID : 7079669838  
Option 1 ID : 70796639351  
Option 2 ID : 70796639349  
Option 3 ID : 70796639350  
Option 4 ID : 70796639352  
Status : Answered  
Chosen Option : 4

Q.9  
9 The ratio of the present ages of Leela and her mother is 3:8. The mother was 25 years old when Leela was born. Find the mother's present age (in years).

- Ans
- 1. 52
  - 2. 56
  - 3. 48

✓ 4. 40

Question ID : 7079669873  
Option 1 ID : 70796639492  
Option 2 ID : 70796639491  
Option 3 ID : 70796639489  
Option 4 ID : 70796639490  
Status : Answered  
Chosen Option : 4

Q.1 00 A/An \_\_\_\_\_ is an interface on a computer to which you can connect a device.

- Ans
- 1. dongle
  - 2. port
  - 3. array
  - 4. anime

Question ID : 7079669850  
Option 1 ID : 70796639400  
Option 2 ID : 70796639399  
Option 3 ID : 70796639398  
Option 4 ID : 70796639397  
Status : Answered  
Chosen Option : 3

Section : Heat Engine

Q.1 In petrol engine, fuel and air mix together in the

- Ans
- 1. Inlet port
  - 2. Combustion chamber
  - 3. Carburetor
  - 4. Injector

Question ID : 7079669910  
Option 1 ID : 70796639640  
Option 2 ID : 70796639639  
Option 3 ID : 70796639637  
Option 4 ID : 70796639638  
Status : Answered  
Chosen Option : 3

Q.2 Hydraulic oil seals are used

- Ans
- 1. To increase friction
  - 2. To prevent leakages
  - 3. To prevent vibrations
  - 4. To avoid friction

Question ID : 7079669968

Option 1 ID : 70796639871  
Option 2 ID : 70796639870  
Option 3 ID : 70796639869  
Option 4 ID : 70796639872  
Status : Answered  
Chosen Option : 4

Q.3 Where is the Spark plug clearance set?

- Ans
- 1. Between Centre rod and ground electrode
  - 2. Between Porcelain and centre electrode
  - 3. Between Porcelain and ground electrode
  - 4. Between Terminal and centre electrode

Question ID : 7079669959  
Option 1 ID : 70796639834  
Option 2 ID : 70796639833  
Option 3 ID : 70796639835  
Option 4 ID : 70796639836  
Status : Not Answered  
Chosen Option : --

Q.4 Connecting rod small end is connected to the -

- Ans
- 1. Cylinder head
  - 2. Crankshaft
  - 3. Piston
  - 4. Cylinder block

Question ID : 7079669958  
Option 1 ID : 70796639829  
Option 2 ID : 70796639832  
Option 3 ID : 70796639831  
Option 4 ID : 70796639830  
Status : Answered  
Chosen Option : 2

Q.5 Galvanized copper is coated with-

- Ans
- 1. Gold
  - 2. Zinc
  - 3. Bronze
  - 4. Copper

Question ID : 7079669949  
Option 1 ID : 70796639793  
Option 2 ID : 70796639794  
Option 3 ID : 70796639796  
Option 4 ID : 70796639795  
Status : Answered  
Chosen Option : 2

Q.6 The dial bore gauge graduations are marked in both clockwise and anti-clockwise direction to measure

- Ans  1. Deviation  
 2. Tolerance  
 3. Allowance  
 4. Dimension

Question ID : 7079669911  
Option 1 ID : 70796639644  
Option 2 ID : 70796639641  
Option 3 ID : 70796639643  
Option 4 ID : 70796639642  
Status : Not Answered  
Chosen Option : --

Q.7 The acker man steering layout is designed for -

- Ans  1. Accident prevention  
 2. Turning steering angles  
 3. Reducing load on the king pins and stub axles  
 4. The driver to feel a head position

Question ID : 7079669920  
Option 1 ID : 70796639677  
Option 2 ID : 70796639680  
Option 3 ID : 70796639679  
Option 4 ID : 70796639678  
Status : Answered  
Chosen Option : 2

Q.8 The latest material used for manufacturing the radiator tubes is -

- Ans  1. Cast iron  
 2. Copper  
 3. Aluminium  
 4. Brass

Question ID : 7079669929  
Option 1 ID : 70796639713  
Option 2 ID : 70796639716  
Option 3 ID : 70796639714  
Option 4 ID : 70796639715  
Status : Answered  
Chosen Option : 3

Q.9 To what is the depth measuring part of vernier caliper attached?

- Ans  1. Vernier scale  
 2. Fixed legs  
 3. Movable legs

✓ 4. Fine adjustment screw

Question ID : 7079669905  
Option 1 ID : 70796639619  
Option 2 ID : 70796639617  
Option 3 ID : 70796639618  
Option 4 ID : 70796639620  
Status : Answered  
Chosen Option : 1

Q.1  
0 The surface plates are used -

- Ans
- ✗ 1. To measure thickness
  - ✗ 2. To measure width
  - ✓ 3. To measure flatness
  - ✗ 4. To measure height

Question ID : 7079669904  
Option 1 ID : 70796639616  
Option 2 ID : 70796639615  
Option 3 ID : 70796639613  
Option 4 ID : 70796639614  
Status : Answered  
Chosen Option : 3

Q.1  
1 The most commonly used valve-actuating mechanism in modern cars is

- Ans
- ✗ 1. Electrical mechanism
  - ✓ 2. Overhead valve mechanism
  - ✗ 3. Overhead inlet and side exhaust valve mechanism
  - ✗ 4. Side valve mechanism

Question ID : 7079669916  
Option 1 ID : 70796639664  
Option 2 ID : 70796639662  
Option 3 ID : 70796639663  
Option 4 ID : 70796639661  
Status : Answered  
Chosen Option : 3

Q.1  
2 In heavy vehicles, the suspension springs provided on rear wheels are-

- Ans
- ✓ 1. Leaf spring
  - ✗ 2. Torsion bar
  - ✗ 3. Coil springs
  - ✗ 4. Shock absorber

Question ID : 7079669963  
Option 1 ID : 70796639851  
Option 2 ID : 70796639850  
Option 3 ID : 70796639849  
Option 4 ID : 70796639852

Status : **Answered**  
Chosen Option : 1

Q.1  
3 To increase output voltage, battery cells are connected in

- Ans
- 1. Counter-parallel
  - 2. Parallel
  - 3. Series
  - 4. Series-parallel

Question ID : 7079669932  
Option 1 ID : 70796639728  
Option 2 ID : 70796639726  
Option 3 ID : 70796639725  
Option 4 ID : 70796639727  
Status : **Not Answered**  
Chosen Option : --

Q.1  
4 What does the Ackerman steering gear consists of?

- Ans
- 1. Rolling and sliding Pairs
  - 2. Sliding Pairs
  - 3. Sliding and rotary Pairs
  - 4. Turning Pairs

Question ID : 7079669964  
Option 1 ID : 70796639854  
Option 2 ID : 70796639856  
Option 3 ID : 70796639853  
Option 4 ID : 70796639855  
Status : **Not Answered**  
Chosen Option : --

Q.1  
5 What is the term used for the opening and closing of valves in relation to piston movement?

- Ans
- 1. Valve mechanism
  - 2. Valve overlap
  - 3. Valve operation
  - 4. Valve timing

Question ID : 7079669974  
Option 1 ID : 70796639895  
Option 2 ID : 70796639896  
Option 3 ID : 70796639894  
Option 4 ID : 70796639893  
Status : **Answered**  
Chosen Option : 4

Q.1  
6 Which part of the piston is subjected to high pressure and temperature?

Ans

- 1. Land
- 2. Skirt
- 3. Crown
- 4. Ring section

Question ID : 7079669913  
Option 1 ID : 70796639651  
Option 2 ID : 70796639650  
Option 3 ID : 70796639649  
Option 4 ID : 70796639652  
Status : Answered  
Chosen Option : 3

Q.1  
7 Oil rings are used to scrap excessive oil from the bore. The oil ring gap is in the range of-

- Ans
- 1. 30.0 mm – 90.0 mm
  - 2. 3.0 mm – 9.0 mm
  - 3. 0.03 mm – 0.09 mm
  - 4. 0.3 mm – 0.9 mm

Question ID : 7079669908  
Option 1 ID : 70796639632  
Option 2 ID : 70796639631  
Option 3 ID : 70796639629  
Option 4 ID : 70796639630  
Status : Not Answered  
Chosen Option : --

Q.1  
8 The energy stored in the flywheel is in the form of-

- Ans
- 1. Electrical energy
  - 2. Potential energy
  - 3. Kinetic energy
  - 4. Heat energy

Question ID : 7079669914  
Option 1 ID : 70796639656  
Option 2 ID : 70796639653  
Option 3 ID : 70796639654  
Option 4 ID : 70796639655  
Status : Answered  
Chosen Option : 3

Q.1  
9 Which of these is used to lift the vehicle when it is taken for a water service?

- Ans
- 1. Hatchet support
  - 2. Round support
  - 3. Half-moon support
  - 4. Horse shoe support

Question ID : 7079669971  
Option 1 ID : 70796639881  
Option 2 ID : 70796639883  
Option 3 ID : 70796639882  
Option 4 ID : 70796639884  
Status : Not Answered  
Chosen Option : --

Q.2  
0 A triangle file is used for -

- Ans
- 1. Rough cutting
  - 2. Fine cutting
  - 3. Groove cutting
  - 4. Flat finishing

Question ID : 7079669903  
Option 1 ID : 70796639611  
Option 2 ID : 70796639612  
Option 3 ID : 70796639610  
Option 4 ID : 70796639609  
Status : Answered  
Chosen Option : 3

Q.2  
1 A two-stroke engine has ports in the

- Ans
- 1. Crankcase
  - 2. Piston
  - 3. Piston rings
  - 4. Cylinder walls

Question ID : 7079669940  
Option 1 ID : 70796639760  
Option 2 ID : 70796639757  
Option 3 ID : 70796639759  
Option 4 ID : 70796639758  
Status : Not Answered  
Chosen Option : --

Q.2  
2 When Brake is applied the kinetic energy of a body is converted into -

- Ans
- 1. Mechanical energy
  - 2. Potential energy
  - 3. Electrical energy
  - 4. Chemical energy

Question ID : 7079669924  
Option 1 ID : 70796639696  
Option 2 ID : 70796639694  
Option 3 ID : 70796639693  
Option 4 ID : 70796639695

Status : Answered  
Chosen Option : 1

Q.2  
3 The engine valves are closed by

- Ans
- 1. Valve springs
  - 2. Crankshaft
  - 3. Timing device
  - 4. Camshaft

Question ID : 7079669975  
Option 1 ID : 70796639900  
Option 2 ID : 70796639897  
Option 3 ID : 70796639899  
Option 4 ID : 70796639898  
Status : Answered  
Chosen Option : 1

Q.2  
4 The instrument used to measure crank journal diameter is

- Ans
- 1. Vernier caliper
  - 2. Outside micrometer
  - 3. Inside micrometer
  - 4. Bore dial gauge

Question ID : 7079669953  
Option 1 ID : 70796639810  
Option 2 ID : 70796639809  
Option 3 ID : 70796639811  
Option 4 ID : 70796639812  
Status : Answered  
Chosen Option : 4

Q.2  
5 In brazing, which property of filler metal makes it flow in small clearances?

- Ans
- 1. Viscosity
  - 2. Melting point
  - 3. Density
  - 4. Capillarity

Question ID : 7079669907  
Option 1 ID : 70796639625  
Option 2 ID : 70796639627  
Option 3 ID : 70796639626  
Option 4 ID : 70796639628  
Status : Answered  
Chosen Option : 4

Q.2  
6 The principle of a radiator of an engine cooling system is to

Ans

- 1. Spread out the hot water over a large area
- 2. Act as a reservoir for the water
- 3. Cause a heat flow by convection current
- 4. Increase the air speed as it flows over the hot surface

Question ID : 7079669946  
Option 1 ID : 70796639783  
Option 2 ID : 70796639781  
Option 3 ID : 70796639782  
Option 4 ID : 70796639784  
Status : Answered  
Chosen Option : 2

Q.2  
7 What is the percentage of lead found in composition of soft solder?

- Ans
- 1. Lead – 60%,
  - 2. Lead – 37%,
  - 3. Lead – 63%,
  - 4. Lead – 50%,

Question ID : 7079669936  
Option 1 ID : 70796639744  
Option 2 ID : 70796639741  
Option 3 ID : 70796639743  
Option 4 ID : 70796639742  
Status : Answered  
Chosen Option : 3

Q.2  
8 Scriber is used for-

- Ans
- 1. Drilling
  - 2. Marking lines
  - 3. Scrapping
  - 4. Punching

Question ID : 7079669902  
Option 1 ID : 70796639608  
Option 2 ID : 70796639606  
Option 3 ID : 70796639605  
Option 4 ID : 70796639607  
Status : Answered  
Chosen Option : 2

Q.2  
9 Taper roller bearing is used for-

- Ans
- 1. Rear axles
  - 2. Gear box
  - 3. Propeller shaft

4. Differential

Question ID : 7079669926  
Option 1 ID : 70796639702  
Option 2 ID : 70796639701  
Option 3 ID : 70796639704  
Option 4 ID : 70796639703  
Status : Answered  
Chosen Option : 4

Q.3  
0 Which of these is the best way to clean an oily floor?

- Ans
- 1. By Putting water
  - 2. By using Cotton waste
  - 3. By using Bleaching powder
  - 4. By Putting saw dust

Question ID : 7079669965  
Option 1 ID : 70796639858  
Option 2 ID : 70796639857  
Option 3 ID : 70796639860  
Option 4 ID : 70796639859  
Status : Answered  
Chosen Option : 4

Q.3  
1 Which type of clutch is used in two wheelers?

- Ans
- 1. Multi plate
  - 2. Diaphragm
  - 3. Centrifugal
  - 4. Single plate

Question ID : 7079669956  
Option 1 ID : 70796639822  
Option 2 ID : 70796639823  
Option 3 ID : 70796639824  
Option 4 ID : 70796639821  
Status : Answered  
Chosen Option : 1

Q.3  
2 Which hammer is used in sheet metal work?

- Ans
- 1. Cross peen hammer
  - 2. Wooden mallet
  - 3. Copper mallet
  - 4. Straight peen hammer

Question ID : 7079669906  
Option 1 ID : 70796639622  
Option 2 ID : 70796639621

Option 3 ID : 70796639624  
Option 4 ID : 70796639623  
Status : Answered  
Chosen Option : 2

Q.3  
3 Braking is produced by the frictional contact between the brake drum and

- Ans
- 1. Brake shoe return spring
  - 2. Wheel cylinders piston
  - 3. Expanding cam
  - 4. Brake shoes

Question ID : 7079669923  
Option 1 ID : 70796639692  
Option 2 ID : 70796639691  
Option 3 ID : 70796639690  
Option 4 ID : 70796639689  
Status : Answered  
Chosen Option : 4

Q.3  
4 While starting an engine, the starter motor pinion engages with-

- Ans
- 1. Engine crankshaft
  - 2. Differential sun gear
  - 3. Flywheel ring gear
  - 4. Gear box

Question ID : 7079669955  
Option 1 ID : 70796639817  
Option 2 ID : 70796639820  
Option 3 ID : 70796639819  
Option 4 ID : 70796639818  
Status : Not Answered  
Chosen Option : --

Q.3  
5 Engine starts but does not run in idle speed because

- Ans
- 1. Excess air in inlet manifold
  - 2. Improper idle speed setting
  - 3. Heavy noise in the engine
  - 4. Hunting of the engine

Question ID : 7079669912  
Option 1 ID : 70796639645  
Option 2 ID : 70796639646  
Option 3 ID : 70796639648  
Option 4 ID : 70796639647  
Status : Answered  
Chosen Option : 1

Q.3

6 The symbol used for indicating lead peroxide is -

- Ans
- 1.  $\text{PbO}_2$
  - 2.  $\text{PbO}_3$
  - 3.  $\text{P}_4\text{O}_{12}$
  - 4.  $\text{P}_4\text{O}_{10}$

Question ID : 7079669938  
Option 1 ID : 70796639749  
Option 2 ID : 70796639751  
Option 3 ID : 70796639752  
Option 4 ID : 70796639750  
Status : Not Answered  
Chosen Option : --

Q.3  
7 When there is an air lock in fuel line, it leads to -

- Ans
- 1. Uneven Engine idling speed
  - 2. Excess delivery from FI pump
  - 3. Late starting of the engine
  - 4. High Injector pressure

Question ID : 7079669961  
Option 1 ID : 70796639844  
Option 2 ID : 70796639842  
Option 3 ID : 70796639841  
Option 4 ID : 70796639843  
Status : Answered  
Chosen Option : 1

Q.3  
8 Which type of roller bearing supports the load acting along the axis of the shaft?

- Ans
- 1. Radial
  - 2. Thrust
  - 3. Longitudinal
  - 4. Vertical

Question ID : 7079669966  
Option 1 ID : 70796639862  
Option 2 ID : 70796639861  
Option 3 ID : 70796639863  
Option 4 ID : 70796639864  
Status : Answered  
Chosen Option : 2

Q.3  
9 What is brazing filler rod made up of?

- Ans
- 1. Iron
  - 2. Tin
  - 3. Brass

4. Lead

Question ID : 7079669934  
Option 1 ID : 70796639733  
Option 2 ID : 70796639735  
Option 3 ID : 70796639734  
Option 4 ID : 70796639736  
Status : Answered  
Chosen Option : 3

Q.4  
0 The reason for the front wheel of tractor being smaller than the rear wheel is -

- Ans
- 1. Decreasing turning angle
  - 2. More pull off load
  - 3. Increasing turning angle
  - 4. Sharp turning

Question ID : 7079669962  
Option 1 ID : 70796639848  
Option 2 ID : 70796639845  
Option 3 ID : 70796639846  
Option 4 ID : 70796639847  
Status : Not Answered  
Chosen Option : --

Q.4  
1 Which of the Snip cutters given below is used for cutting the sheet?

- Ans
- 1. Straight snip
  - 2. Round snip
  - 3. Flat snip
  - 4. Bent snip

Question ID : 7079669950  
Option 1 ID : 70796639799  
Option 2 ID : 70796639798  
Option 3 ID : 70796639797  
Option 4 ID : 70796639800  
Status : Answered  
Chosen Option : 1

Q.4  
2 In diesel engine the fuel is ignited by

- Ans
- 1. Spark plug
  - 2. Virtue of temperature of compressed air
  - 3. A glow plug
  - 4. An injector

Question ID : 7079669945  
Option 1 ID : 70796639778  
Option 2 ID : 70796639780

Option 3 ID : 70796639777  
Option 4 ID : 70796639779  
Status : Answered  
Chosen Option : 2

Q.4  
3 The colour code used for hose pipe for oxygen line is \_\_\_\_\_

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

Question ID : 7079669937  
Option 1 ID : 70796639747  
Option 2 ID : 70796639748  
Option 3 ID : 70796639745  
Option 4 ID : 70796639746  
Status : Answered  
Chosen Option : 3

Q.4  
4 During suction stroke, the charge drawn in a petrol engine is

- Ans
- 1. Air only
  - 2. Petrol, air, methane
  - 3. Air and petrol mixture
  - 4. Petrol only

Question ID : 7079669909  
Option 1 ID : 70796639634  
Option 2 ID : 70796639636  
Option 3 ID : 70796639635  
Option 4 ID : 70796639633  
Status : Answered  
Chosen Option : 3

Q.4  
5 Which transmission unit helps in providing a smooth take off for the vehicle?

- Ans
- 1. Gear box
  - 2. Clutch
  - 3. Load gear
  - 4. Differential

Question ID : 7079669967  
Option 1 ID : 70796639865  
Option 2 ID : 70796639866  
Option 3 ID : 70796639867  
Option 4 ID : 70796639868  
Status : Answered  
Chosen Option : 4

Q.4  
6 Based on the system of ignition used, diesel engine is also called

- Ans
- 1. Air ignition engine
  - 2. Self-ignition engine
  - 3. Compression ignition engine
  - 4. Airless ignition engine

Question ID : 7079669944  
Option 1 ID : 70796639775  
Option 2 ID : 70796639774  
Option 3 ID : 70796639773  
Option 4 ID : 70796639776  
Status : Answered  
Chosen Option : 3

Q.4  
7 Which one of the following conductors is used in bulbs?

- Ans
- 1. Carbon
  - 2. Tungsten
  - 3. Nichrome
  - 4. Copper

Question ID : 7079669935  
Option 1 ID : 70796639738  
Option 2 ID : 70796639737  
Option 3 ID : 70796639740  
Option 4 ID : 70796639739  
Status : Answered  
Chosen Option : 2

Q.4  
8 The wheel alignment of Toe-in and toe-out are related to

- Ans
- 1. Rear axle of tractor
  - 2. Tractor steering
  - 3. Front axle of tractor
  - 4. Tractor engine

Question ID : 7079669921  
Option 1 ID : 70796639682  
Option 2 ID : 70796639683  
Option 3 ID : 70796639681  
Option 4 ID : 70796639684  
Status : Answered  
Chosen Option : 3

Q.4  
9 Which of these safety equipment has to be used while working with heat engines?

- Ans
- 1. Goggles
  - 2. Apron
  - 3. Disposable gloves
  - 4. Overall coat

Question ID : 7079669901  
Option 1 ID : 70796639602  
Option 2 ID : 70796639603  
Option 3 ID : 70796639604  
Option 4 ID : 70796639601  
Status : Not Answered  
Chosen Option : --

Q.5  
0 The oil sump in an engine is made up of

- Ans
- 1. Steel or aluminum
  - 2. Steel or brass
  - 3. Cast iron or tin
  - 4. Cast iron or brass

Question ID : 7079669952  
Option 1 ID : 70796639805  
Option 2 ID : 70796639806  
Option 3 ID : 70796639808  
Option 4 ID : 70796639807  
Status : Not Answered  
Chosen Option : --

Q.5  
1 Oil bath air cleaner is serviced

- Ans
- 1. After every 2000 km
  - 2. After every 3000 km
  - 3. After every 5000 km
  - 4. After every 4000 km

Question ID : 7079669947  
Option 1 ID : 70796639785  
Option 2 ID : 70796639786  
Option 3 ID : 70796639788  
Option 4 ID : 70796639787  
Status : Not Answered  
Chosen Option : --

Q.5  
2 Ohm's law is not applicable to

- Ans
- 1. DC circuits
  - 2. Small resistors
  - 3. High currents
  - 4. Semi-conductors

Question ID : 7079669930  
Option 1 ID : 70796639717  
Option 2 ID : 70796639719  
Option 3 ID : 70796639718  
Option 4 ID : 70796639720  
Status : Answered

Chosen Option : 4

Q.5  
3 A fuse in an electrical circuit blows as a result of a high

- Ans
- 1. Voltage caused by a closed circuit
  - 2. Current flow caused by a closed circuit
  - 3. Voltage caused by a short circuit
  - 4. Current flow caused by a short circuit

Question ID : 7079669970  
Option 1 ID : 70796639879  
Option 2 ID : 70796639880  
Option 3 ID : 70796639877  
Option 4 ID : 70796639878  
Status : Answered  
Chosen Option : 3

Q.5  
4 Which of these blows off the fuse?

- Ans
- 1. Heating
  - 2. Melting
  - 3. Arcing
  - 4. Burning

Question ID : 7079669931  
Option 1 ID : 70796639724  
Option 2 ID : 70796639723  
Option 3 ID : 70796639721  
Option 4 ID : 70796639722  
Status : Answered  
Chosen Option : 2

Q.5  
5 A mechanism used to control the speed of an engine is called

- Ans
- 1. Governor
  - 2. Odometer
  - 3. Speedometer
  - 4. Regulator

Question ID : 7079669948  
Option 1 ID : 70796639790  
Option 2 ID : 70796639791  
Option 3 ID : 70796639792  
Option 4 ID : 70796639789  
Status : Answered  
Chosen Option : 1

Q.5  
6 One of these is not an exhaust valve face angle. Identify

- Ans
- 1.  $75^\circ$

2.  $60^\circ$

3.  $30^\circ$

4.  $45^\circ$

Question ID : 7079669957

Option 1 ID : 70796639828

Option 2 ID : 70796639827

Option 3 ID : 70796639825

Option 4 ID : 70796639826

Status : Answered

Chosen Option : 3

Q.5  
7 A differential gear in an automobile is not found in -

Ans  1. Tractor

2. Bus

3. Auto

4. Car

Question ID : 7079669928

Option 1 ID : 70796639711

Option 2 ID : 70796639712

Option 3 ID : 70796639709

Option 4 ID : 70796639710

Status : Answered

Chosen Option : 3

Q.5  
8 Leaf spring absorbs shocks by

Ans  1. Expanding

2. Bending

3. Compression

4. Twisting

Question ID : 7079669919

Option 1 ID : 70796639676

Option 2 ID : 70796639673

Option 3 ID : 70796639675

Option 4 ID : 70796639674

Status : Answered

Chosen Option : 1

Q.5  
9 Wheel base of a vehicle is the

Ans  1. Distance between the front tyres

2. Distance between the rear tyres

3. Distance between the front and rear axle

4. Total length of the vehicle

Question ID : 7079669917  
Option 1 ID : 70796639665  
Option 2 ID : 70796639668  
Option 3 ID : 70796639666  
Option 4 ID : 70796639667  
Status : Answered  
Chosen Option : 3

Q.6 Substances through which internal electric charges do not flow freely and very little electric current will flow through it  
0 under the influence of an electric field are known as -

- Ans
- 1. Capacitors
  - 2. Conductors
  - 3. Insulators
  - 4. Resistors

Question ID : 7079669933  
Option 1 ID : 70796639731  
Option 2 ID : 70796639732  
Option 3 ID : 70796639730  
Option 4 ID : 70796639729  
Status : Answered  
Chosen Option : 4

Q.6 What is the material used in making cylinder head?  
1

- Ans
- 1. Tin
  - 2. Chromium
  - 3. Bronze
  - 4. Cast iron or aluminum

Question ID : 7079669954  
Option 1 ID : 70796639816  
Option 2 ID : 70796639815  
Option 3 ID : 70796639814  
Option 4 ID : 70796639813  
Status : Not Answered  
Chosen Option : --

Q.6 The most commonly used valve in an automobile engine is -  
2

- Ans
- 1. Sleeve valve
  - 2. Spring valve
  - 3. Rotary valve
  - 4. Poppet valve

Question ID : 7079669943  
Option 1 ID : 70796639770  
Option 2 ID : 70796639772  
Option 3 ID : 70796639771  
Option 4 ID : 70796639769  
Status : Not Answered  
Chosen Option : --

Q.6  
3 In a transmission system, the power transmits from engine to \_\_\_\_\_

- Ans
- 1. Gear box
  - 2. Axle
  - 3. Differential
  - 4. Clutch

Question ID : 7079669927  
Option 1 ID : 70796639706  
Option 2 ID : 70796639708  
Option 3 ID : 70796639705  
Option 4 ID : 70796639707  
Status : Answered  
Chosen Option : 1

Q.6  
4 Why is the inlet valve bigger in diameter?

- Ans
- 1. To send out gases
  - 2. To suck the air
  - 3. To increase the air velocity
  - 4. To decrease the air velocity

Question ID : 7079669925  
Option 1 ID : 70796639699  
Option 2 ID : 70796639700  
Option 3 ID : 70796639698  
Option 4 ID : 70796639697  
Status : Answered  
Chosen Option : 2

Q.6  
5 The purpose of caster angle is to give a trailing effect to the-

- Ans
- 1. Inner wheels
  - 2. Front wheels
  - 3. Rear wheels
  - 4. Outer wheels

Question ID : 7079669922  
Option 1 ID : 70796639687  
Option 2 ID : 70796639685  
Option 3 ID : 70796639686  
Option 4 ID : 70796639688  
Status : Answered  
Chosen Option : 2

Q.6  
6 The fuel consumption is high during -

- Ans
- 1. Neutral
  - 2. 2 gear
  - 3. 1 gear

4. 3 gear

Question ID : 7079669960  
Option 1 ID : 70796639837  
Option 2 ID : 70796639839  
Option 3 ID : 70796639838  
Option 4 ID : 70796639840  
Status : Answered  
Chosen Option : 4

Q.6  
7 Which part lies between the engine shaft and gear box?

- Ans  1. Clutch  
 2. Flywheel  
 3. Differential  
 4. Propeller shaft

Question ID : 7079669915  
Option 1 ID : 70796639658  
Option 2 ID : 70796639659  
Option 3 ID : 70796639657  
Option 4 ID : 70796639660  
Status : Answered  
Chosen Option : 1

Q.6  
8 The stroke of an engine is

- Ans  1. Volume of the cylinder  
 2. Length of the connecting rod  
 3. Inside diameter of the cylinder  
 4. Movement of the piston from T.D.C to B.D.C

Question ID : 7079669939  
Option 1 ID : 70796639755  
Option 2 ID : 70796639756  
Option 3 ID : 70796639753  
Option 4 ID : 70796639754  
Status : Answered  
Chosen Option : 4

Q.6  
9 What is the material used to make crankshaft?

- Ans  1. Cast iron  
 2. Mild steel  
 3. Forging steel  
 4. Grey cast iron

Question ID : 7079669972  
Option 1 ID : 70796639885  
Option 2 ID : 70796639886

Option 3 ID : 70796639887  
Option 4 ID : 70796639888  
Status : Answered  
Chosen Option : 1

Q.7  
0 What is the process used to make a Cylinder blocks?

- Ans
- 1. Forging
  - 2. Die casting
  - 3. Centrifugal casting
  - 4. Hollow casting

Question ID : 7079669973  
Option 1 ID : 70796639892  
Option 2 ID : 70796639889  
Option 3 ID : 70796639891  
Option 4 ID : 70796639890  
Status : Answered  
Chosen Option : 4

Q.7  
1 What is the impact when there is Blasting of the front tyre of any vehicle?

- Ans
- 1. Steering control is lost
  - 2. The engine slow down
  - 3. The engines picks up speed
  - 4. The engine stops

Question ID : 7079669918  
Option 1 ID : 70796639669  
Option 2 ID : 70796639672  
Option 3 ID : 70796639671  
Option 4 ID : 70796639670  
Status : Answered  
Chosen Option : 1

Q.7  
2 On the rear end of a crankshaft is mounted

- Ans
- 1. Vibration damper
  - 2. Flywheel
  - 3. Timing sprocket
  - 4. Counterweight

Question ID : 7079669942  
Option 1 ID : 70796639767  
Option 2 ID : 70796639766  
Option 3 ID : 70796639765  
Option 4 ID : 70796639768  
Status : Answered  
Chosen Option : 4

Q.7  
3 Which material is commonly used for making tubes?

- Ans
- 1. Synthetic rubber
  - 2. Natural rubber
  - 3. Butyl
  - 4. Asbestos

Question ID : 7079669969  
Option 1 ID : 70796639875  
Option 2 ID : 70796639874  
Option 3 ID : 70796639873  
Option 4 ID : 70796639876  
Status : Answered  
Chosen Option : 3

Q.7  
4 The lubricating oil pumps is driven by

- Ans
- 1. Belt drive
  - 2. Rocker shaft
  - 3. Damper pulley
  - 4. Engine Camshaft

Question ID : 7079669941  
Option 1 ID : 70796639762  
Option 2 ID : 70796639764  
Option 3 ID : 70796639763  
Option 4 ID : 70796639761  
Status : Not Answered  
Chosen Option : --

Q.7  
5 A conductor should have-

- Ans
- 1. Medium voltage
  - 2. Low specific resistance
  - 3. High specific resistance
  - 4. High voltage

Question ID : 7079669951  
Option 1 ID : 70796639802  
Option 2 ID : 70796639801  
Option 3 ID : 70796639803  
Option 4 ID : 70796639804  
Status : Answered  
Chosen Option : 2