



# RAILWAY RECRUITMENT BOARDS

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## Level-1 Posts CEN-02/2018

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

**Q.1** You are given a question and two statements. Identify which of the statements is/are sufficient to answer the question.

**Question:**

What is the total age of the sisters 10 years from now?

**Statements:**

1. Lina is 20 years old now.
2. Lina's sister's age is twice that of  $\frac{1}{4}$ th of the age of Lina.

- Ans**
- ☒ 1. Statement 1 alone is sufficient.
  - ☒ 2. Statements 1 and 2 together are not sufficient.
  - ☒ 3. Statement 2 alone is sufficient.
  - ☒ 4. Statements 1 and 2 together are sufficient.

**Q.2** Who has won the Best Actor award in the 90<sup>th</sup> Oscar awards 2018?

- Ans**
- ☒ 1. Garry Oldman
  - ☒ 2. Denzel Washington
  - ☒ 3. Daniel Day Lewis
  - ☒ 4. Daniel Kaluuya

**Q.3** A person clapped his hands near a cliff and heard echo after 6 s. The distance of the cliff from the person is:  
[take  $v = 346\text{ms}^{-1}$ ]

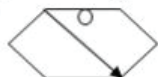
- Ans ☒ 1. 1038 m  
☒ 2. 1083 m  
☒ 3. 2076 m  
☒ 4. 2706 m

**Q.4** A car accelerates uniformly from  $18\text{ kmh}^{-1}$  to  $72\text{ kmh}^{-1}$  in 5 s. The acceleration of the car is:

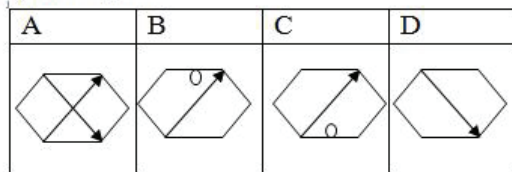
- Ans ☒ 1.  $3\text{ ms}^2$   
☒ 2.  $10.8\text{ ms}^{-2}$   
☒ 3.  $10.8\text{ ms}^2$   
☒ 4.  $3\text{ ms}^{-2}$

**Q.5** Which of the option figures bears the closest resemblance to the question figure?

Question Figure:



Option figures:



- Ans ☒ 1. B  
☒ 2. D  
☒ 3. C  
☒ 4. A

Q.6 What is the percentage of oxygen in  $\text{Al}_2(\text{SO}_4)_3$  ?

- Ans
- ☐ 1. 57.7%
  - ☒ 2. 56.1%
  - ☐ 3. 53.1%
  - ☐ 4. 52.6%

Q.7 Given is a question followed by two arguments. Decide which of the arguments is/are strong with respect to the question.

**Question:**

Should we avoid overuse of air conditioners?

**Arguments:**

- I. Yes, it weakens the human system.
- II. No, the comfort cannot be forsaken.

- Ans
- ☒ 1. Only argument I is strong.
  - ☐ 2. Both arguments I and II are strong.
  - ☐ 3. Only argument II is strong.
  - ☐ 4. Neither argument I nor II is strong.

Q.8 Prime Minister Narendra Modi laid the foundation stone of Char Dham highway development project or Chardham Mahamarg Vikas Pariyojna at \_\_\_\_\_.

- Ans
- ☐ 1. Rishikesh
  - ☒ 2. Dehradun
  - ☐ 3. Manikaran
  - ☐ 4. Haridwar

Q.9 Pond is related to Water in the same way as Mountain is related to:

- Ans
- ☒ 1. Birds
  - ☒ 2. Rocks
  - ☒ 3. Animals
  - ☒ 4. Climb

Q.10 Who became the first Indian woman to win the Korea open series in Badminton?

- Ans
- ☒ 1. Saina Nehwal
  - ☒ 2. Jwala Gutta
  - ☒ 3. Ashwini Ponnappa
  - ☒ 4. P. V. Sindhu

Q.11 You are given a question and two statements. Identify which of the statements is/are necessary/sufficient to answer the question.

Question:

Among the bags A, B, C and D which one is the lightest bag?

Statements:

- 1. B is heavier than A
- 2. A is lighter than C and D

- Ans
- ☒ 1. Statement 2 alone is sufficient
  - ☒ 2. Statement 1 and 2 together are necessary
  - ☒ 3. Statement 1 alone is sufficient
  - ☒ 4. Statement 1 and 2 are not sufficient to solve



Q.1  
2 Name the country which won the 2017 Women's Hockey Asia Cup title?

- Ans
- ☐ 1. Nepal
  - ☐ 2. Pakistan
  - ☒ 3. India
  - ☐ 4. Bangladesh

Q.1  
3 The median of the numbers 14, 12, 12, 16, 13 and 18 is:

- Ans
- ☐ 1. 13
  - ☐ 2. 14
  - ☐ 3. 14.5
  - ☒ 4. 13.5

Q.1  
4 PM Modi's Birthday has been celebrated as \_\_\_\_\_ across India.

- Ans
- ☐ 1. Kisan Diwas
  - ☒ 2. Sewa Diwas
  - ☐ 3. Hindi Diwas
  - ☐ 4. Bal Diwas

Q.1  
5 The Chola kings were prolific temple builders who built the \_\_\_\_\_ temple at Tanjavur.

- Ans
- ☐ 1. Brahmeshvara
  - ☒ 2. Brihadeesvara
  - ☐ 3. Lingaraja

☒ 4. Dilwara

Q.1  
6 \_\_\_\_\_ gas is used as an illuminating gas.

- Ans
- ☒ 1. Methyl
  - ☒ 2. Propane
  - ☒ 3. Butene
  - ☒ 4. Ethyne

Q.1  
7  $80 \div [48 - \{56 - (60 - 36 \div 12 \times 4)\}] =$

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

Q.1  
8 Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement.

Statement:

"Kirti played a very good shot on the pitch," says a friend to Sajit.

Conclusions:

- I. Sajit likes cricket.
- II. Kirti is a good player.

- Ans
- ☒ 1. Conclusion I alone follows
  - ☒ 2. Conclusion II alone follows
  - ☒ 3. Neither I nor II follows
  - ☒ 4. Both the conclusions follow

Q.1  
9  $\frac{3}{4} + \left\{ \frac{3}{4} + \frac{3}{4} \div \left( \frac{3}{4} + \frac{3}{4} \right) \right\} = ?$

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

Q.2  
0 A water tank is  $\frac{2}{5}$  th full. Inlet A can fill the tank in 12 minutes while an outlet pipe B can empty it in 6 minutes. If both the pipes are open, how long will it take to empty or fill the tank completely?

- Ans
- ☒ 1. It fills in 4.8 min
  - ☒ 2. It empties in 4.8 min
  - ☒ 3. It fills in 5.6 min
  - ☒ 4. It empties in 5.6 min

Q.2  
1 38% of a number is 133. What is the number?

- Ans
- ☒ 1. 340
  - ☒ 2. 350
  - ☒ 3. 360
  - ☒ 4. 355

Q.2  
2 Who among the following had been roped in June 2017 by the Union Government of India to promote GST?

- Ans
- ☐ 1. Sachin Tendulkar
  - ☐ 2. Salman Khan
  - ☒ 3. Amitabh Bachchan
  - ☐ 4. Aishwarya Rai Bachchan

Q.2  
3 Find the square root of 15625.

- Ans
- ☒ 1. 125
  - ☐ 2. 145
  - ☐ 3. 150
  - ☐ 4. 135

Q.2  
4 Complete the number series by choosing the missing terms from the options.  
32, 64, 256, 1536, ?, 122880, 1474560

- Ans
- ☐ 1. 122860
  - ☐ 2. 12268
  - ☐ 3. 12285
  - ☒ 4. 12288

Q.2  
5 If  $\tan \alpha = \sqrt{3} + 2$ , then the value of  $\tan \alpha - \cot \alpha$  is

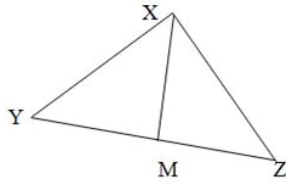
- Ans
- ☐ 1. 2

✓ 2.  $2\sqrt{3}$

✗ 3.  $\sqrt{3} - 2$

✗ 4. 4

Q.2  
6



In the diagram, M is the midpoint of  $\overline{YZ}$ ,  $\angle XMZ = 32^\circ$ , and  $\angle XYZ = 16^\circ$ . The measure of  $\angle XZY$  is:

Ans ✗ 1.  $68^\circ$

✗ 2.  $84^\circ$

✗ 3.  $81^\circ$

✓ 4.  $74^\circ$

Q.2  
7 Soft drinks contain:

Ans ✗ 1. Oxalic acid

✗ 2. Tartaric acid

✓ 3. Carbonic acid

✗ 4. Citric acid

Q.2  
8 Raghu has invested ₹1000 and received ₹1300 at 6% per annum simple interest after X years. Find the value of X.

Ans ✗ 1. 4 years

☒ 2. 3 years

☒ 3. 2 years

☒ 4. 5 years

Q.2  
9 Thorn Forests are found in \_\_\_\_\_.

Ans ☒ 1. Kashmir

☒ 2. Kerala

☒ 3. Sikkim

☒ 4. Rajasthan

Q.3  
0 Bending of light rays in denser medium is termed as:

Ans ☒ 1. Reflection

☒ 2. Dispersion

☒ 3. Refraction

☒ 4. Deflection

Q.3  
1 In a shop 4.5% of 1500 kg toor dal was sold. Find the quantity sold.

Ans ☒ 1. 64.5 kg

☒ 2. 63.5 kg

☒ 3. 70 kg

☒ 4. 67.5 kg

**Q.3** Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement.

**2**

**Statement:**

School students are more influenced by their faculty nowadays

**Assumption:**

- I. School students consider their faculty as role models
- II. More time is spent at schools by students

**Ans** ☒ 1. Neither I nor II is implicit

☒ 2. Only II is implicit

☒ 3. Only I is implicit

☒ 4. Either I or II is implicit

**Q.3** An object travels 23 m in 3 s and then another 15 m in 2 s. What is the average speed of the object?

**3**

**Ans** ☒ 1.  $7.6 \text{ ms}^{-1}$

☒ 2.  $7.6 \text{ s}^{-1}$

☒ 3.  $8.0 \text{ ms}^{-1}$

☒ 4. 7.6 m

**Q.3** Find the next term in the following series:

**4**

X24C, V22E, T20G, \_\_\_\_\_

**Ans** ☒ 1. RI19

☒ 2. R19I

☒ 3. R18I

☒ 4. RI18



**Q.3** Pipe A is an inlet pipe that can fill an empty cistern in 69 hours. Pipe B can drain the filled cistern in 46 hours. When the cistern was filled the two pipes are opened one at a time for an hour each, starting with Pipe B. how long will it take for the cistern to be empty?

- Ans**
- ☒ 1. 11 days 10 hours
  - ☒ 2. 11 days 7 hours
  - ☒ 3. 11 days 12 hours
  - ☒ 4. 1 days 13 hours

**Q.3** When a constant force acts on an object with a mass of 8 kg for a duration of 3 s, it increases the object's velocity from  $4 \text{ ms}^{-1}$  to  $6 \text{ ms}^{-1}$ . What is the magnitude of the applied force?

- Ans**
- ☒ 1. 5.33 N
  - ☒ 2. 4.33 N
  - ☒ 3. 6.33 N
  - ☒ 4. 3.33 N

**Q.3** Find the next term in the following series.  
Z26, X24, V22, \_\_\_\_\_

- Ans**
- ☒ 1. T20
  - ☒ 2. W23
  - ☒ 3. K15
  - ☒ 4. J10

Q.3  
8 An object of 10 kg is moving with a speed of 2 m/s. The kinetic energy of the object is:

- Ans
- ☒ 1. 20 J
  - ☐ 2. 5 J
  - ☐ 3. 10 J
  - ☐ 4. 40 J

Q.3  
9 If  $a$  is positive and  $a^2 + \frac{1}{a^2} = 7$ , then  $a^3 + \frac{1}{a^3} =$

- Ans
- ☐ 1. 21
  - ☐ 2.  $3\sqrt{7}$
  - ☒ 3. 18
  - ☐ 4.  $7\sqrt{7}$

Q.4  
0 \_\_\_\_\_ elements have the largest atoms.

- Ans
- ☐ 1. F
  - ☐ 2. O
  - ☐ 3. H
  - ☒ 4. Li

Q.4  
1 West Bengal shares boundaries with \_\_\_\_\_ countries.

- Ans
- ☐ 1. 2
  - ☐ 2. 4
  - ☐ 3. 1

✓ 4. 3

Q.4  
2 Find the odd one out.

A	B	C	D
1595	1425	1725	1325
AEIE	ADBE	AGBE	ACBE

Ans  
✗ 1. C  
✗ 2. D  
✓ 3. A  
✗ 4. B

Q.4  
3 If a person moves a trolley for a distance of 10 m with a force of 50 N, then the work done is:

Ans  
✗ 1. 0.2 J  
✗ 2. 5 J  
✗ 3. 20 J  
✓ 4. 500 J

Q.4  
4 A and B can complete a task in 1.5 days. However, A had to leave a few days before the task was completed and hence it took 2 days in all to complete the task. If A alone could complete the work in 2.625 days, how many days before the work getting over did A leave?

Ans  
✗ 1. 1.125  
✗ 2. 0.625  
✗ 3. 0.375  
✓ 4. 0.875

Q.4  
5 A/An\_\_\_\_\_ tissue is formed beneath the skin and between internal organs.

- Ans
- ☐ 1. Epithelial
  - ☐ 2. Nervous
  - ☐ 3. Muscular
  - ☒ 4. Adipose

Q.4  
6 If MEAT is coded as 135120, then what will be the code for ZEBRA?

- Ans
- ☒ 1. 2652181
  - ☐ 2. 2652191
  - ☐ 3. 2662181
  - ☐ 4. 2662191

Q.4  
7 Who among the following hosted the Hindi version of “Bigg Boss-11”?

- Ans
- ☐ 1. Aamir Khan
  - ☒ 2. Salman Khan
  - ☐ 3. Shilpa Shetty
  - ☐ 4. Farhan Akhtar

Q.4  
8 \_\_\_\_ is the property of attracting electrons by the halogen atoms in a molecule.

- Ans
- ☐ 1. Electron affinity
  - ☐ 2. Electropositivity
  - ☐ 3. Electrochemistry
  - ☒ 4. Electronegativity

Q.4  
9 The headquarter of the Board of Control for Cricket in India (BCCI) is located in:

- Ans
- ☐ 1. Delhi
  - ☒ 2. Mumbai
  - ☐ 3. Chennai
  - ☐ 4. Kolkata

Q.5  
0 Which of the following inert gases is placed in period 4 of the periodic table?

- Ans
- ☒ 1. Kr
  - ☐ 2. Rn
  - ☐ 3. Xe
  - ☐ 4. Ar

Q.5  
1 In a code language, AILMENT is written as 1923540. What is the code for DISEASE?

- Ans
- ☐ 1. 4985195
  - ☒ 2. 4995195
  - ☐ 3. 4905195

☒ 4. 4995196

Q.5 Sabrina travelled 8 km/hr on foot and 13 km/hr on cycle. She travelled a distance of 84 km in 8 hours. For how many hours did she cycle?

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

Q.5 Venu is the Son of Avani and Amit is the son of Avani's brother. How is Amit's Mother related to Venu?

- Ans ☒ 1. Sister  
☒ 2. Maternal aunt  
☒ 3. Paternal aunt  
☒ 4. Cousin

Q.5 Who is considered as the father of taxonomy?

- Ans ☒ 1. Darwin  
☒ 2. Einstein  
☒ 3. Mandelbrot  
☒ 4. Linnaeus

Q.5 5<sup>th</sup> January 2018 was a Friday. Which of the following years will also have 5<sup>th</sup> January on a Friday?

- Ans
- ☒ 1. 2022
  - ☒ 2. 2020
  - ☒ 3. 2024
  - ☒ 4. 2023

Q.5 6 As per RBI Annual Report 2016-17, what is the estimated value of demonetised banknotes received?

- Ans
- ☒ 1. ₹ 12.25 lakh crore
  - ☒ 2. ₹ 15.28 lakh crore
  - ☒ 3. ₹ 19.48 lakh crore
  - ☒ 4. ₹ 13.35 lakh crore

Q.5 7 Who among the following was crowned with the Miss World 2017 title?

- Ans
- ☒ 1. Andrea Meza
  - ☒ 2. Rolene Strauss
  - ☒ 3. Manushi Chhillar
  - ☒ 4. Aurore Kichenin

Q.5 8 For the data given below, find the sum of mode, median and mean.

6, 3, 8, 4, 3, 11, 7, 4, 5, 4.

- Ans
- ☒ 1. 13.5



☒ 2. 13

☒ 3. 14

☒ 4. 14.5

**Q.5** Vishal is 20 years younger to Arya. Twelve years hence Arya's age will be 1.25 times that of Vishal. Arya is now 9 \_\_\_\_\_ years old.

**Ans** ☒ 1. 78

☒ 2. 68

☒ 3. 88

☒ 4. 72

**Q.6** Read the given statement(s) and conclusions carefully and select which of the conclusions logically follow(s) from the statement(s).

Statement:

Looking at Limay's new watch, Nita comments, "Oh, that's so awesome. Where did you buy it from?"

Conclusions:

I. Limay's watch is attractive

II. Nita wants to know where to buy a similar watch from.

**Ans** ☒ 1. Both the conclusions follow

☒ 2. Conclusion II alone follows

☒ 3. Neither I nor II follows

☒ 4. Conclusion I alone follows

**Q.6** In \_\_\_\_\_, Sher Khan ( SherShah ) attacked Bengal and defeated Ghiyashuddin Shah.

1

**Ans** ☒ 1. 1358

☒ 2. 1583

☒ 3. 1538

 4. 1540

**Q.6** By selling a used phone for ₹ 7,260 Sanjan got 34% less than what it cost him to buy it a few years ago. At what price  
**2** should Sanjan have sold the phone to gain a profit of 5%?

**Ans** 1. ₹ 11,460

2. ₹ 11,480

3. ₹ 11,440

4. ₹ 11,420


Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.


**Q.6** You are given a question and three statements. Identify which of the statements is/are necessary/sufficient to answer the  
**3** question.


L, M, N, O and P are standing in a circle facing the centre. Who is standing to the right of L?


**Statements:**

1. Next to L are P and M
2. O is standing to the right of P
3. O is standing to the left of N

**Ans**  1. Statement 1 and 2 are not sufficient

 2. Statements 1 and 2 together are sufficient


 3. The statements are insufficient


 4. Statement 1 alone is sufficient

**Q.6** In a code language, FATE is written as 61205. What is the code for LEAN?  
**4**


**Ans**  1. 125114


 2. 125115


 3. 126114


 4. 135114

Q.6  
5 Which of the following numbers is irrational?

Ans  1.  $\sqrt[10]{1024}$

 2.  $\sqrt[4]{1024}$


 3.  $\sqrt{1024}$


 4.  $\sqrt[5]{1024}$


Q.6  
6 Find the next term in the given series.

B2, K12, T72, \_\_\_\_\_


Ans  1. C432

 2. A434


 3. A432


 4. C434

Q.6  
7 The famous activist Irom Chanu Sharmila is better known as 'The Iron Lady of \_\_\_\_\_'.

Ans  1. Manipur

 2. Mizoram

 3. Nagaland

 4. Tripura

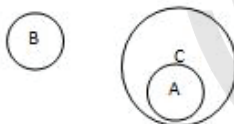

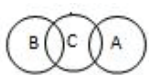
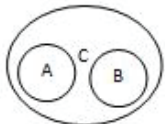
Q.6 \_\_\_\_\_ helps the eye to adjust the focal length of the lens.

- Ans
- ☒ 1. Lens
  - ☒ 2. Ciliary body
  - ☒ 3. Retina
  - ☒ 4. Entire eye ball

Q.6 Which of the following correctly represents the relationship between the following classes?

- 9
- A) Bell
  - B) Water
  - C) Brass

Ans

- ☒ 1. 
- ☒ 2. 
- ☒ 3. 
- ☒ 4. 

Q.7 Name the Chief Minister of Telangana who was honoured with the Global Agricultural Leadership Award 2017.

- 0
- Ans
- ☒ 1. Siddaramaiah
  - ☒ 2. K. T. Rama Rao
  - ☒ 3. N. Chandrababu Naidu

✓ 4. K. Chandra Shekhar Rao

Q.7  
1 What is the full form of ASSOCHAM?

- Ans
- ✓ 1. Associated Chambers of Commerce and Industry
  - ✗ 2. Association of Commerce
  - ✗ 3. Associated Commerce
  - ✗ 4. Associated Chambers in India

Q.7  
2 Name the Bollywood actor who received Kala Ratan Award in March 2017?

- Ans
- ✗ 1. Naseeruddin Shah
  - ✗ 2. Akshay Kumar
  - ✓ 3. Anupam Kher
  - ✗ 4. Jitendra

Q.7  
3 Where the mature sperm are produced?

- Ans
- ✗ 1. Scrotum
  - ✗ 2. Vas deferens
  - ✗ 3. Prostate gland
  - ✓ 4. Testes

Q.7  
4 Asexual reproduction takes place in:

- Ans
- ☐ 1. Plants
  - ☐ 2. Higher animals
  - ☐ 3. Lower animals
  - ☒ 4. Lower animals and plants

Q.7  
5 Tribeni had to travel 175 km in 3.5 hours. However, she travelled at the rate of 58 km/hr for 2.5 hours and then rested for 20 minutes before completing the journey. If Tribeni managed to reach on time, her speed during the last stretch would have been \_\_\_\_\_.

- Ans
- ☐ 1. 36 km/hr
  - ☐ 2. 30 km/hr
  - ☐ 3. 42.5 km/hr
  - ☒ 4. 45 km/hr

Q.7  
6 Who among the following was sworn in as the Chief Minister of Manipur in 2017?

- Ans
- ☐ 1. M Koireng Singh
  - ☒ 2. N Biren Singh
  - ☐ 3. Longjam Thambou
  - ☐ 4. M Alimuddin Singh

Q.7  
7 An object travels 24 m in 3 s and then another 15 m in 2 s. What is the average speed of the object?

Ans

☒ 1.  $7.8 \text{ s}^{-1}$

☒ 2.  $7.8 \text{ ms}^{-1}$

☒ 3.  $8.0 \text{ m}$

☒ 4.  $6.67 \text{ ms}^{-1}$

Q.7 
$$\frac{(-12)[11 + \{7 \times (-3)\}]}{4\{13 - (-3) \times (-6)\}} =$$

Ans ☒ 1.  $-6$

☒ 2.  $-4$

☒ 3.  $4$

☒ 4.  $-2$

Q.7 An object having the capability to do work is said to possess:

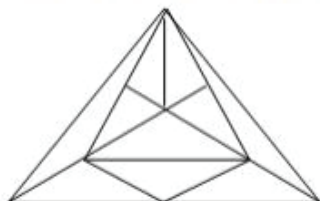
Ans ☒ 1. Inertia

☒ 2. Force

☒ 3. Pressure

☒ 4. Energy

Q.8 How many triangles are there in this figure?



Ans



☒ 1. 21

☒ 2. 23

☒ 3. 22

☒ 4. 20

Q.8  
1 \_\_\_\_\_ is displaced when zinc is added to the solution of copper sulphate.

Ans ☒ 1. Copper

☒ 2. Hydrogen

☒ 3. Zinc

☒ 4. Sulphate

Q.8  
2 Atomic radius is measured in:.

Ans ☒ 1. Micrometres

☒ 2. Nanometres

☒ 3. Millimetres

☒ 4. Centimetres

Q.8  
3 \_\_\_\_\_ compound is used as a drying agent.

Ans ☒ 1. Calcium oxide

☒ 2. Calcium carbide

☒ 3. Gypsum

☒ 4. Calcium carbonate

Q.8 What will come in the place of question mark (?) in the below series?

$\Omega \leq \mathbb{R}$	$\mathbb{R} \Omega \geq$	$\Omega < \mathbb{R}$	?
--------------------------	--------------------------	-----------------------	---

A	B	C	D
$\Omega \mathbb{R} >$	$\mathbb{R} > \Omega$	$\mathbb{R} \Omega >$	$\mathbb{R} < \Omega$

- Ans
- ☒ 1. A
  - ☒ 2. D
  - ☒ 3. B
  - ☒ 4. C

Q.8 Consider the given statement(s) and decide which of the given assumption(s) is/are implicit in the statement.

Statement:

"The use of antibiotic tablets, destabilises the gut bacteria".

Assumptions:

- I. There are friendly bacteria in the gut.
- II. Gut health is foremost for overall health.

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

Q.8 A mass of 20 kg is at a height of 8 m above the ground. Then the potential energy possessed by the body is:

[Given  $g = 9.8 \text{ ms}^{-2}$ ]

- Ans
- ☒ 1. 1568 J
  - ☒ 2. 1568 C

☒ 3. 1568 W

☒ 4. 1568 N

Q.8  
7 1 kWH = \_\_\_\_\_ J

Ans ☒ 1.  $3.6 \times 10^{-8}$

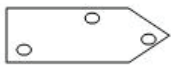
☒ 2.  $3.6 \times 10^{-6}$

☒ 3.  $3.6 \times 10^8$

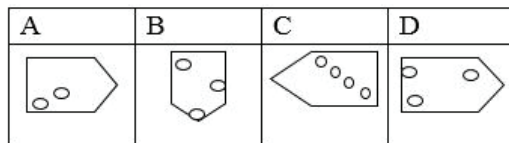
☒ 4.  $3.6 \times 10^6$

Q.8  
8 Which of the option figures bears the closest resemblance to the question figure?

**Question Figure:**



**Option Figures:**



Ans ☒ 1. B

☒ 2. D

☒ 3. C


☒ 4. A

- 9 What is the average price difference per kg (in ₹) for vegetables between two years for the three months given in the following table?

Months	Price per kg – Year 1	Price per kg – Year 2
Jan	40	35
Feb	40	50
Mar	40	35


Ans  1.

Average price of vegetables in Year 1 is less than that in Year 2.

 2. There is no difference in the average price.

 3.

Average price of vegetables in Year 2 is less than that in Year 1.

 4. We cannot compare the prices.

- Q.9  
0 Select the lateral mirror image of TEETH from the given option figures?

Option figures.

TEETH	HT33T	TEETH	HT33T
A	B	C	D

Ans  1. C

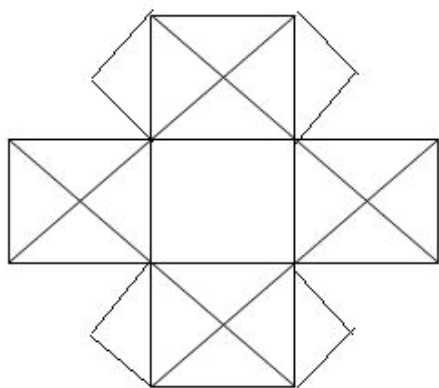
 2. D

 3. A

 4. B

- Q.9  
1

How many triangles are there in the following figure?



Ans 1. 48

2. 32

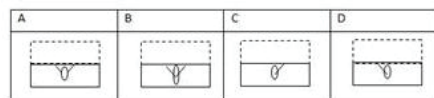
3. 46

4. 30

Note: For this question, discrepancy is found in question/answer. So, This question is ignored for all candidates.

Q.9 Which pattern will the given transparent sheet resemble when it is folded at the dotted line?

2



Ans ~~1.~~ D

~~2.~~ C

✓ 3. B

~~4.~~ A

Q.9 In the year 2016, there were 52 weeks and P days. Find the value of P.

3

Ans ✓ 1. 2

~~2.~~ 4

✗ 3. 3

✗ 4. 5

Q.9  
4 Which of the fractions given below is not equal to  $\frac{4}{11}$ ?

Ans ✗ 1.  $\frac{32}{88}$

✓ 2.  $\frac{84}{209}$

✗ 3.  $\frac{64}{176}$

✗ 4.  $\frac{20}{55}$

Q.9  
5 Select the option that can replace the question mark (?) in the following series.

<table><tr><td>F</td><td>Q</td></tr><tr><td>H</td><td>A</td></tr></table>	F	Q	H	A	<table><tr><td>±</td><td>F</td></tr><tr><td>A</td><td>Q</td></tr></table>	±	F	A	Q	<table><tr><td>A</td><td>H</td></tr><tr><td>Q</td><td>F</td></tr></table>	A	H	Q	F	?
F	Q														
H	A														
±	F														
A	Q														
A	H														
Q	F														

<table><tr><td>H</td><td>Q</td></tr><tr><td>F</td><td>A</td></tr></table>	H	Q	F	A	A	<table><tr><td>A</td><td>Q</td></tr><tr><td>F</td><td>±</td></tr></table>	A	Q	F	±	B
H	Q										
F	A										
A	Q										
F	±										
<table><tr><td>Q</td><td>A</td></tr><tr><td>F</td><td>H</td></tr></table>	Q	A	F	H	C	<table><tr><td>Q</td><td>A</td></tr><tr><td>F</td><td>±</td></tr></table>	Q	A	F	±	D
Q	A										
F	H										
Q	A										
F	±										

Ans ✗ 1. B

✗ 2. C

✓ 3. D

✗ 4. A

Q.9 Alarms from 3 different clocks sound after every 2, 4 and 6 hours, respectively. If the clocks are started at the same time, how many times do the alarms ring together in 3 days?

- Ans
- ☒ 1. 6
  - ☐ 2. 3
  - ☐ 3. 9
  - ☐ 4. 2

Q.9 Meet starts cycling early in the morning, facing the Sun. After some time, he takes a  $45^\circ$  turn to his left and then again turns  $80^\circ$  towards his left. In which direction is he now with respect to his initial position?

- Ans
- ☐ 1. South-East
  - ☐ 2. South-West
  - ☒ 3. North-West
  - ☐ 4. North-East

Q.9 As of August 2018, what is the portfolio held by the current Union Minister Ravi Shankar Prasad?

- Ans
- ☐ 1. Human Resource Development
  - ☐ 2. Petroleum
  - ☒ 3. Law and Telecommunications
  - ☐ 4. Coal

Q.9  
9



Which of the option figures bears the closest resemblance to the question figure?

**Question Figure:**



**Option Figures:**

A	B	C	D

Ans ☒ 1. A

☒ 2. C

☒ 3. B

☒ 4. D

Q.1  
00  $(-18) [36 \div \{7 - (-2)\}] \div (-4) \{19 - (-3) \times (-5)\} = ?$

Ans ☒ 1. -4.5

☒ 2. 4.5

☒ 3. 2.5

☒ 4. -2.5