



## RAILWAY RECRUITMENT BOARDS

### रेलवे भर्ती बोर्ड

### Level-1 Posts CEN-02/2018

- 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

**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:**

- Lina is 20 years old now.
- 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

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**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  $v = 346\text{ms}^{-1}$ ]

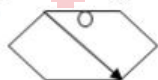
- Ans** ☒ 1. 1038 m  
☒ 2. 1083 m  
☒ 3. 2076 m  
☒ 4. 2706 m

**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:

A	B	C	D

- 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  $\frac{3}{4} + \left\{ \frac{3}{4} + \frac{3}{4} \div \left( \frac{3}{4} + \frac{3}{4} \right) \right\} = ?$

Ans

☐ 1.  $\frac{3}{4}$

☐ 2. 1

☒ 3. 2

☐ 4.  $2\frac{3}{4}$

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

Ans

☐ 1. 340

☒ 2. 350

☐ 3. 360

☐ 4. 355



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

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

Q.2 Find the square root of 15625.  
3

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

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

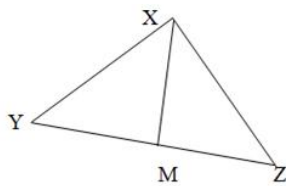
- Ans
- ☒ 1. 122860
  - ☒ 2. 12268
  - ☒ 3. 12285
  - ☒ 4. 12288

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

- 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.  $7.6 \text{ m}$

**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 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 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 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 \_\_\_\_ 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 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 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 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 Chillar
  - ☒ 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.

- 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 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 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?

- 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



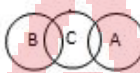
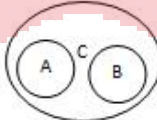


Q.6 8 \_\_\_\_\_ helps the eye to adjust the focal length of the lens.

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

Q.6 9 Which of the following correctly represents the relationship between the following classes?

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

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

Q.7 0 Name the Chief Minister of Telangana who was honoured with the Global Agricultural Leadership Award 2017.

- 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.  $6.67 \text{ ms}^{-1}$

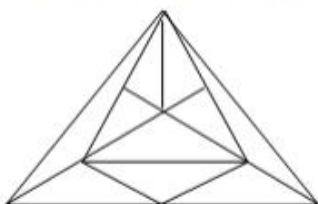
Q.7  $\frac{(-12)[11 + \{7 \times (-3)\}]}{8} \div [4\{13 - (-3) \times (-6)\}] =$

- Ans
- ☒ 1.  $-6$
  - ☒ 2.  $-4$
  - ☒ 3.  $4$
  - ☒ 4.  $-2$

Q.7  $\frac{9}{9}$  An object having the capability to do work is said to possess:

- Ans
- ☒ 1. Inertia
  - ☒ 2. Force
  - ☒ 3. Pressure
  - ☒ 4. Energy

Q.8  $\frac{0}{0}$  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.

**5**

**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:

**6**

[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.  $3.6 \times 10^{-8}$

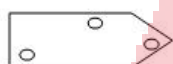
✗ 2.  $3.6 \times 10^{-6}$

✗ 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:**

A	B	C	D

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 Select the lateral mirror image of TEETH from the given option figures?

Option figures.

TEETH	HT33T	TEETH	TEETH
A	B	C	D

Ans ☒ 1. C

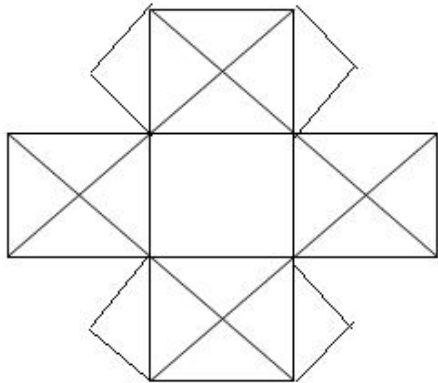
☒ 2. D

☒ 3. A

☒ 4. B

Q.9  
1

How many triangles are there in the following figure?



Ans 1. 48

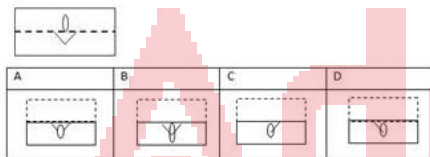
2. 32

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

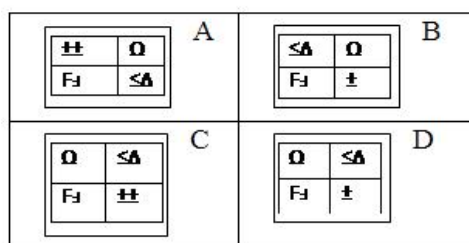
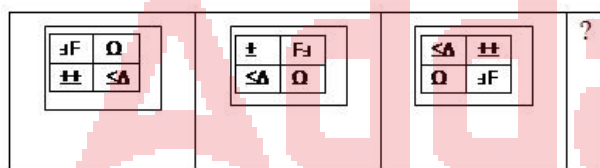
✗ 1.  $\frac{32}{88}$

✓ 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.



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

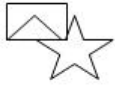
**Q.9** As of August 2018, what is the portfolio held by the current Union Minister Ravi Shankar Prasad?

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




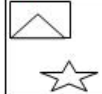
**Q.9**  
9

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