Studybox Doon

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Exam Instructions

1. The timer has been set for the exam, and a countdown will display the remaining time. When the timer runs out, the exam will end automatically. No further action will be required after that.
2. You can flag any question that you want.
3. If you don't want to submit any of your provided answers, you can clear them.
4. If you choose to drop this exam, it will not be submitted, and no result will be generated.
5. Once you finish the exam, you cannot resume it.

Question: 1 of 150   QID: 5683   Marks: 4

The value of $\sqrt{2025} \times \sqrt{81}$ is

Please mark (✓) for the correct answer.

○ **A.** 300   ○ **B.** 405

○ **C.** 435   ○ **D.** 502

Question: 2 of 150   QID: 5684   Marks: 4

The volume of a cubical box is 32.768 cubic meters. Find the length of a side of the box.

Please mark (✓) for the correct answer.

○ **A.** 2.3 m   ○ **B.** 10 m

○ **C.** 4 m   ○ **D.** 3.2 m

Question: 3 of 150   QID: 5685   Marks: 4

In the given figure, M is the mid-point of line segment AB whose length is 2a. Semicircles having diameters AM, MB and AB are drawn at the same side of the line. The radius of a circle touching all the three semicircles is

Please mark (✓) for the correct answer.

○ **A.** 2a/3   ○ **B.** a/2

○ **C.** a/3   ○ **D.** a/4

A tent is in the form of a right circular cylinder surmounted by a cone. The diameter of cylinder is 24 m, the height of the cylindrical portion is 11 m, while the vertex of the cone is 16 m above the ground. The area of the canvas required for the tent is:

Please mark (✓) for the correct answer.

A. 1320 m²

B. 1277 m²

C. 7552 m²

D. 1100 m²

Area of the shaded region is

Please mark (✓) for the correct answer.

A. 96 sq.m

B. 155 sq.m

C. 81 sq.m

D. 111 sq.m

The length and breadth of a square are increased by 40% and 30% respectively. The area of resulting rectangle exceeds the area of square by:

Please mark (✓) for the correct answer.

A. 62%

B. 82%

C. 77%

D. None of these

If 6 men and 8 boys can do a piece of work in 10 days and 26 men and 48 boys can do the same work in 2 days, then time taken by 15 men and 20 boys to do the same type of work will be:

Please mark (✓) for the correct answer.

A. 6 days

B. 4 days

C. 8 days

D. 7 days

Three pipes A, B and C can fill a tank from empty to full in 30 minutes, 20 minutes and 10 minutes respectively. When the tank is empty, all three pipes are opened. A, B and C discharge chemical solutions Q, R and P respectively. What is the proportion of solution R in the liquid in the tank after 3 minutes?

Please mark (✓) for the correct answer.

A. 3/11

B. 6/11

C. 5/11

D. None

Multiply: $\sqrt{3}x^2y^2 - \sqrt{2}x^3y^2 + \sqrt{5}x^3y^3$ **by** $-\sqrt{2}x^2y^2$

Please mark (✓) for the correct answer.

○ **A.** $-\sqrt{6}x^4y^4 + 2x^5y^4 - \sqrt{10}x^5y^5$

○ **B.** $-\sqrt{6}x^4 + x^3y^5 + \sqrt{10}xy^3$

○ **C.** $\sqrt{6}xy + x^2x^5 + \sqrt{10}x^3y^5$

○ **D.**   None

If x = √2 + √2 and y = √2 - √2, then find the value of x²-y²:

Please mark (✓) for the correct answer.

○ **A.**   12

○ **B.**   14

○ **C.**   6

○ **D.**   18

Evaluate: $a^3 - 3\sqrt{3b^3}$

Please mark (✓) for the correct answer.

○ **A.** $\left(a + b\sqrt{3}\right)\left(a^2 - ab\sqrt{3} + 3b^2\right)$

○ **B.** $\left(a - b\sqrt{3}\right)\left(a^2 - ab\sqrt{3} + 3b^2\right)$

○ **C.** $\left(a - b\sqrt{3}\right)\left(a^2 + ab\sqrt{3} + 3b^2\right)$

○ **D.** $\left(a + b\sqrt{3}\right)\left(a^2 + ab\sqrt{3} + 3b^2\right)$

The mid-point of the line segment joining the points (−2,4) and (6,10) is:

Please mark (✓) for the correct answer.

○ **A.**   (2,5)

○ **B.**   (2,7)

○ **C.**   (3,7)

○ **D.**   (3,8)

A shopkeeper has just enough money to buy 52 cycles worth ₹525 each. If each cycle were to cost ₹21 more, then number of cycles he will be able to buy is:

Please mark (✓) for the correct answer.

○ **A.**   40

○ **B.**   30

○ **C.**   50

○ **D.**   20

7 kg of barley costs ₹126 each; find cost of 28 kg barley:

Please mark (✓) for the correct answer.

A. ₹ 504

B. ₹ 500

C. ₹ 702

D. ₹ 506

Identify value X equation

$$\frac{x}{x-a} + \frac{x}{x-b} = 2$$

Please mark (✓) for the correct answer.

A. a/b

B. ab

C. $\dfrac{2ab}{a+b}$

D. 2ab

₹13500 are to be distributed among Salma, Kiran, and Jennifer in such a way that Salma gets ₹1000 more than Kiran and Jennifer gets ₹500 more than Kiran. Find the money received by Jennifer.

Please mark (✓) for the correct answer.

A. ₹4900

B. ₹5600

C. ₹4500

D. ₹5700

A number consists of two digits. The digit in the ten's place exceeds the digit in the unit's place by 4. The sum of the digits is 1/7 of the number. The number is:

Please mark (✓) for the correct answer.

A. 27

B. 72

C. 48

D. 84

If $\dfrac{1}{a^3} + \dfrac{1}{b^3} + \dfrac{1}{c^3} = 0$, then the value of $(a+b+c)^3$ will be:

Please mark (✓) for the correct answer.

A. 9a²b²c²

B. 3abc

C. 6abc

D. 27abc

A number consists of two digits; the sum of the digits is 5 and if the left digit be increased by 1, it will be equal to 1/8 of the number. Find the number.

Please mark (✓) for the correct answer.

A. 41
B. 23
C. 14
D. 32

Factorize: $a^3b - ab^3$

Please mark (✓) for the correct answer.

A. ab(a² + b² + ab + b²)
B. ab(a² + ab + b³)
C. ab(a² - b² + a³ - b³)
D. ab(a - b)(a + b)

A car covers a distance of 240 km in 6 hours, partly at a speed of 60 km/hr and partly at 30 km/hr. Find the time for which it travels at 60 km/hr.

Please mark (✓) for the correct answer.

A. 3 hours
B. 2 hours
C. 5 hours
D. 1 hour

A person travels at a speed of 24 km/hr and reaches a town in 32 hours. How much time does he take to cover the same distance if his speed is 32 km/hr?

Please mark (✓) for the correct answer.

A. 8 hrs
B. 12 hrs
C. 24 hrs
D. None

Compound interest on ₹2000 for 3 years at rates of interest is 5%, 10%, and 20% for first, second, and third years respectively, is:

Please mark (✓) for the correct answer.

A. ₹3310
B. ₹3500
C. ₹772
D. ₹3980

In what time will ₹72 become ₹81 at 6¼% p.a. S.I.?

Please mark (✓) for the correct answer.

A. 1½ years

B. 2½ years

C. 2 years

D. None of these

The average of 9 observations was found to be 35. Later on, it was detected that an observation 81 was misread as 18. The correct average of these observations is:

Please mark (✓) for the correct answer.

A. 29

B. 42

C. 35

D. 45

The sum of the present ages of P and Q is 25 years more than the age of R. The present age of Q is 5 years more than that of R. Find the present age of P.

Please mark (✓) for the correct answer.

A. 20 years

B. 25 years

C. 21 years

D. 22 years

If the distance between the point (x,2) and (3,4) is 2, then the value of x =

Please mark (✓) for the correct answer.

A. 0

B. 2

C. 3

D. 4

If a dividend of ₹ 57,834 is to be divided among Meena, Urmila and Vaishali in the proportion of 3:2:1, find Urmila's share.

Please mark (✓) for the correct answer.

A. ₹ 19,281

B. ₹ 17,350

C. ₹ 23,133

D. ₹ 19,278

The H.C.F. and L.C.M. of two numbers are 12 and 336 respectively. If one of the numbers is 84, the other is

Please mark (✓) for the correct answer.

- A.   36
- B.   48
- C.   72
- D.   96

If $3^{2x-y} = 3^{x-y} = 27$, then the value of 3^{x-y} will be :

Please mark (✓) for the correct answer.

- A. $\dfrac{1}{\sqrt{3}}$
- B. $\dfrac{1}{\sqrt{27}}$
- C. $\sqrt{3}$
- D.   3

The simplified value of following is:

$$\left(\frac{3}{15}a^5b^6c^3 \times \frac{5}{9}ab^5c^4\right) \div \frac{10}{27}a^2bc^3$$

Please mark (✓) for the correct answer.

- A. $\dfrac{9}{10}a^2bc^4$
- B. $\dfrac{9}{10}a^4b^{10}c^4$
- C. $\dfrac{3}{10}a^4b^{10}c^4$
- D. $\dfrac{1}{10}a^4b^{10}c^4$

The median of the data 11, 12, 13, 14, 15, 26, 27, 28, 29, 30 is

Please mark (✓) for the correct answer.

- A.   15
- B.   21.5
- C.   23
- D.   20.5

The mean of the data 110, 120, 130, 140, 150, 220, 270, 290 is

Please mark (✓) for the correct answer.

- ○ **A.** 178.75
- ○ **B.** 176.25
- ○ **C.** 168.65
- ○ **D.** 188.25

The difference between 89% of a number and 73% of the same number is 448. What is 49% of that number?

Please mark (✓) for the correct answer.

- ○ **A.** 1426
- ○ **B.** 1372
- ○ **C.** 1218
- ○ **D.** 1124

If the numerator of a fraction is increased by 200% and the denominator of the fraction is increased by 150%, the resultant fraction is 9/35. What is the original fraction?

Please mark (✓) for the correct answer.

- ○ **A.** 3/10
- ○ **B.** 3/14
- ○ **C.** 3/16
- ○ **D.** 2/7

A is thrice as good a workman as B and is, therefore, able to finish a piece of work in 60 days less than B. The time (in days) in which they can do it working together is

Please mark (✓) for the correct answer.

- ○ **A.** 22 days
- ○ **B.** $22\frac{1}{2}$ days
- ○ **C.** 23 days
- ○ **D.** 24 days

A water tank can be filled by a tap in 30 minutes and another tap can fill it in 60 minutes. If both the taps are kept open for 5 minutes and then the first tap is closed, how long will it take for the tank to be full ?

Please mark (✓) for the correct answer.

- ○ **A.** 20 minutes
- ○ **B.** 25 minutes
- ○ **C.** 30 minutes
- ○ **D.** 45 minutes

The length of a rectangular plot is thrice its breadth. If the area of the rectangular plot is 7803 sq. mts., what is the breadth of the rectangular plot?

Please mark (✓) for the correct answer.

A.   51 metre   B.   153 metre

C.   104 metre   D.   88 metre

In $\triangle ABC$, $\angle B = 60°$, $\angle C = 40°$. If AD bisects $\angle BAC$ and $\angle EAD = \angle ABC$, then $\angle EAD$ is:

Please mark (✓) for the correct answer.

A.   40°   B.   80°

C.   60°   D.   20°

The perimeters of two similar triangles are 30 cm and 20 cm respectively. If one side of the first triangle is 9 cm, determine the corresponding side of the second triangle.

Please mark (✓) for the correct answer.

A.   15 cm   B.   5 cm

C.   6 cm   D.   13.5 cm

ABCD is a cyclic trapezium with AB || DC and AB is the diameter of the circle. If $\angle CAB = 30°$, then $\angle ADC$ is:

Please mark (✓) for the correct answer.

A.   60°   B.   120°

C.   150°   D.   30°

Mohan bought a watch with a 25% discount on the selling price. If the watch cost him ₹1,545, what is the original price of the watch?

Please mark (✓) for the correct answer.

A.   ₹2,050   B.   ₹2,000

C.   ₹2,060   D.   Cannot be determined

If $x^2 - y^2 = 1$ and $y + x = \sqrt{2}$, what is the value of x/y?

Please mark (✓) for the correct answer.

- **A.** $\sqrt{2}$
- **B.** 3
- **C.** $\sqrt{2}/2$
- **D.** $-\sqrt{2}/2$

A car travels a distance of 45 km at the speed of 15 kmph. It covers the next 50 km of its journey at the speed of 25 kmph and the last 25 km of its journey at the speed of 10 kmph. What is the average speed of the car?

Please mark (✓) for the correct answer.

- **A.** 40 kmph
- **B.** 24 kmph
- **C.** 16 kmph
- **D.** 18 kmph

If $x^3 = y^2 + (3^3 - y^3 - 1)$, then the value of $y^5 + 4$ is:

Please mark (✓) for the correct answer.

- **A.** 247
- **B.** 182
- **C.** 192
- **D.** 356

What is the least number to be added to 1500 to make it a perfect square?

Please mark (✓) for the correct answer.

- **A.** 20
- **B.** 21
- **C.** 22
- **D.** 23

An amount of ₹ 50176 is distributed equally among 32 persons. How much would each person get?

Please mark (✓) for the correct answer.

- **A.** ₹1555
- **B.** ₹1478
- **C.** ₹1460
- **D.** ₹1568

A number, when divided by 114, leaves remainder 21. If the same number is divided by 19, then the remainder will be

Please mark (✓) for the correct answer.

A. 1   B. 2

C. 7   D. 17

What is the probability that a non-leap year contains 53 Saturdays?

Please mark (✓) for the correct answer.

A. 2/7   B. 1/7

C. 2/365   D. 1/365

Probability of an impossible event is equal to

Please mark (✓) for the correct answer.

A. 1   B. 0

C. 1/7   D. None

In the following question four alternatives are given for the idiom/phrase italicised and underlined in the sentence.

The project did not appear to hold out bright prospects.

Please mark (✓) for the correct answer.

A. Highlight   B. show

C. Offer   D. promise

In the following question four alternatives are given for the idiom/phrase italicised and underlined in the sentence.

I am afraid he is burning the candle at both ends and ruining his life.

Please mark (✓) for the correct answer.

A. wasting his money   B. becoming overgenerous

C. overtaxing his energies D. losing his objectives

In question given below out of four alternatives. Choose the one which can be substitued for the given word/sentence.

The custom or practice of having more than one husband at same time

Please mark (✓) for the correct answer.

○ **A.** Polygyny ○ **B.** Polyphony

○ **C.** Polyandry ○ **D.** Polychromy

In question given below out of four alternatives. Choose the one which can be substitued for the given word/sentence.

Tending to move away from the centre or axis

Please mark (✓) for the correct answer.

○ **A.** Centrifugal ○ **B.** Centripetal

○ **C.** Axiomatic ○ **D.** Awry

In this section, you are required to spot errors in sentences.If there is no error in any part, mark (d) as the answer

These are his conclusion remarks
    a   b   c

Please mark (✓) for the correct answer.

○ **A.** a ○ **B.** b

○ **C.** c ○ **D.** No error

In this section, you are required to spot errors in sentences.If there is no error in any part, mark (d) as the answer

The shopkeeper offered either to exchange the goods or refund the money.
                          a   b   c

Please mark (✓) for the correct answer.

○ **A.** a ○ **B.** b

○ **C.** c ○ **D.** No error

Look at the underlined part of each sentence. Below each sentence, three possible situations for the underlined part are given. If one of them (a), (b) or (c) is better than the underlined part, indicate your response by choosing the correct option.

I am used to <u>hard work</u>.

Please mark (✓) for the correct answer.

○ **A.** work hard

○ **B.** work hardly

○ **C.** hard working

○ **D.** No improvement

Look at the underlined part of each sentence. Below each sentence, three possible situations for the underlined part are given. If one of them (a), (b) or (c) is better than the underlined part, indicate your response by choosing the correct option.

Twenty kilometres <u>are not a great distance</u> in these days for fast moving vehicles.

Please mark (✓) for the correct answer.

○ **A.** is not a great distance

○ **B.** is no distance

○ **C.** aren't a great distance

○ **D.** No improvement

Look at the underlined part of each sentence. Below each sentence, three possible situations for the underlined part are given. If one of them (a), (b) or (c) is better than the underlined part, indicate your response by choosing the correct option.

They were working as <u>usually</u>

Please mark (✓) for the correct answer.

○ **A.** usual

○ **B.** as usual

○ **C.** usually

○ **D.** No improvement

Pick out the nearest correct meaning or synonym of the words given below:

RECUPERATE

Please mark (✓) for the correct answer.

○ **A.** recapture

○ **B.** delight

○ **C.** recover

○ **D.** overcome

QID: 5743

Marks: 2

Pick out the nearest correct meaning or synonym of the words given below:

ALMS

Please mark (✓) for the correct answer.

○ **A.** blessings

○ **B.** charity

○ **C.** prayers

○ **D.** worship

Question: 62 of 150

QID: 5744

Marks: 2

Pick out the opposite meaning or antonym of the words given below:
INDICT

Please mark (✓) for the correct answer.

○ **A.** condemn

○ **B.** reprimand

○ **C.** acquit

○ **D.** allege

Question: 63 of 150

QID: 5745

Marks: 2

Pick out the opposite meaning or antonym of the words given below:
VACILLATE

Please mark (✓) for the correct answer.

○ **A.** amplify

○ **B.** stimulate

○ **C.** consistent

○ **D.** eradicate

Question: 64 of 150

QID: 5746

Marks: 2

Choose the correct spelling

Please mark (✓) for the correct answer.

○ **A.** Effloroscence

○ **B.** Efflorescence

○ **C.** Effloressence

○ **D.** Effloresecence

Question: 65 of 150

QID: 5747

Marks: 2

Choose the correct spelling

Please mark (✓) for the correct answer.

○ **A.** Alienate

○ **B.** Alianate

○ **C.** Alieanate

○ **D.** Alieneate

Choose the correct spelling

Please mark (✓) for the correct answer.

○ **A.** Griagarious
○ **B.** Gregarious
○ **C.** Gregarous
○ **D.** Greagarious

It is not fair to cast ___ on honest and innocent persons.

Please mark (✓) for the correct answer.

○ **A.** aspiration
○ **B.** aspersions
○ **C.** inspiration
○ **D.** adulation

Neocountry can ___ to practice a constant, rigid foreign policy in view of the world power dynamics.

Please mark (✓) for the correct answer.

○ **A.** obviate
○ **B.** anticipate
○ **C.** afford
○ **D.** envisage

From the given alternatives, choose the one which best expresses the given sentence in Passive / Active Voice.

The Principal has granted him a scholarship.

Please mark (✓) for the correct answer.

○ **A.** A scholarship has been granted to him by the Principal.
○ **B.** He has been granted a scholarship by the Principal.
○ **C.** He has grant a scholarship by the Principal.
○ **D.** A scholarship was granted to him by the Principal.

In the following passages, some of the words have been left out. fill in the blanks with the help of the alternatives given.

In the following passages, some of the words have been left out. fill in the blanks with the help of the alternatives given.

Several commentators have remarked that Finance Minister Arun Jaitley's budget for 2017-18 lacks much _____1_____ but everything has to be viewed in _____2_____. This year's Budget was presented at a time when there were several _____3_____ clouds hanging over the economy. We are still reeling _____4_____ the effects of demonetisation, which will have a medium-term impact on the economy.

Fill in the (1) with correct alternative.

Please mark (✓) for the correct answer.

○ **A.** Color

○ **B.** Vigor

○ **C.** Work

○ **D.** Perspective

In the following passages, some of the words have been left out. fill in the blanks with the help of the alternatives given.

Several commentators have remarked that Finance Minister Arun Jaitley's budget for 2017-18 lacks much _____1_____ but everything has to be viewed in _____2_____. This year's Budget was presented at a time when there were several _____3_____ clouds hanging over the economy. We are still reeling _____4_____ the effects of demonetisation, which will have a medium-term impact on the economy.

Fill in the (2) with correct alternative.

Please mark (✓) for the correct answer.

○ **A.** Vigor

○ **B.** Color

○ **C.** Context

○ **D.** Perspective

In the following passages, some of the words have been left out. fill in the blanks with the help of the alternatives given.

Several commentators have remarked that Finance Minister Arun Jaitley's budget for 2017-18 lacks much _____1_____ but everything has to be viewed in _____2_____. This year's Budget was presented at a time when there were several _____3_____ clouds hanging over the economy. We are still reeling _____4_____ the effects of demonetisation, which will have a medium-term impact on the economy.

Fill in the (3) with correct alternative.

Please mark (✓) for the correct answer.

○ **A.** White

○ **B.** Hail

○ **C.** Cloud

○ **D.** Storm

In the following passages, some of the words have been left out. fill in the blanks with the help of the alternatives given.

Several commentators have remarked that Finance Minister Arun Jaitley's budget for 2017-18 lacks much _____1_____ but everything has to be viewed in _____2_____. This year's Budget was presented at a time when there were several _____3_____ clouds hanging over the economy. We are still reeling _____4_____ the effects of demonetisation, which will have a medium-term impact on the economy.

Fill in the (4) with correct alternative.

Please mark (✓) for the correct answer.

○ **A.** By

○ **B.** In

○ **C.** Of

○ **D.** From

The minister's controversial speech managed to ___ tensions in the already volatile region, drawing criticism from the opposition.

Please mark (✓) for the correct answer.

○ **A.** mollify

○ **B.** exacerbate

○ **C.** attenuate

○ **D.** placate

The scientist's groundbreaking discovery did not immediately ___ among her peers, as many were hesitant to accept a theory that challenged long-established norms.

Please mark (✓) for the correct answer.

○ **A.** permeate

○ **B.** dissipate

○ **C.** coalesce

○ **D.** stagnate

The Panchayati Raj is included in the

Please mark (✓) for the correct answer.

○ **A.** Union list

○ **B.** State list

○ **C.** Concurrent list

○ **D.** Residual list

What is the normal tenure of a Panchayat?

Please mark (✓) for the correct answer.

- A. 3 years
- B. 4 years
- C. 2 years
- D. 5 years

Green Revolution in India started from

Please mark (✓) for the correct answer.

- A. Bengaluru
- B. Delhi
- C. Kanpur
- D. Punjab

The Blue Revolution is related with

Please mark (✓) for the correct answer.

- A. Fish Production
- B. Food grain production
- C. Oilseed production
- D. Milk production

Chipko movement was basically against

Please mark (✓) for the correct answer.

- A. Water pollution
- B. Noise pollution
- C. Deforestation
- D. Cultural pollution

What term denotes the organisms getting their food from others?

Please mark (✓) for the correct answer.

- A. Heterotrophs
- B. Autotrophs
- C. Producers
- D. Synthesizers

How many members are nominated by the president in the Rajya Sabha?

Please mark (✓) for the correct answer.

- A.   2
- B.   10
- C.   12
- D.   15

Question: 83 of 150   QID: 5840   Marks: 2

Who is the Chairman of the Rajya Sabha?

Please mark (✓) for the correct answer.

- A.   The President
- B.   The Vice-President
- C.   The Prime Minister
- D.   The Speaker

Question: 84 of 150   QID: 5841   Marks: 2

India's first semi-high speed train 'Tejas' will run between:

Please mark (✓) for the correct answer.

- A.   Mumbai and Karmali
- B.   Thane and Kudal
- C.   Mumbai and Pune
- D.   Mumbai and Karmali

Question: 85 of 150   QID: 5842   Marks: 2

Which is the source of chlorofluorocarbons?

Please mark (✓) for the correct answer.

- A.   Thermal power plants
- B.   Automobiles
- C.   Refrigerators and Air-conditioning
- D.   Fertilizers

Question: 86 of 150   QID: 5843   Marks: 2

The famous Sambhar Lake is situated in

Please mark (✓) for the correct answer.

- A.   Rajasthan
- B.   Gujarat
- C.   West Bengal
- D.   Orissa

An important river of the Indian desert is?

Please mark (✓) for the correct answer.

○ **A.** Luni   ○ **B.** Narmada

○ **C.** Yamuna   ○ **D.** Indus

The largest river of Asia is –

Please mark (✓) for the correct answer.

○ **A.** Indus   ○ **B.** Brahmaputra

○ **C.** Yangtze   ○ **D.** Hwang Ho

'Palk Strait' is a narrow channel of sea between—

Please mark (✓) for the correct answer.

○ **A.** India and Sri Lanka   ○ **B.** Bangladesh and Myanmar

○ **C.** England and Ireland   ○ **D.** France and England

The largest producer of Milk in the world is

Please mark (✓) for the correct answer.

○ **A.** China   ○ **B.** U.S.A.

○ **C.** India   ○ **D.** Brazil

Which among the following is called a terrestrial planet?

Please mark (✓) for the correct answer.

○ **A.** Mercury   ○ **B.** Jupiter

○ **C.** Saturn   ○ **D.** Uranus

Who was the first Chief Justice of Supreme Court of Calcutta?

Please mark (✓) for the correct answer.

○ **A.** Elijah Impey

○ **B.** Lord Hastings

○ **C.** Lemaistre

○ **D.** Lord Wellesley

Which operative was started by the British Government to arrest the leaders of Quit India Movement?

Please mark (✓) for the correct answer.

○ **A.** Operation Paper

○ **B.** Operation Zero Hour

○ **C.** Operation Thunderbolt

○ **D.** Operation Blue Star

Kakori conspiracy case took place in the year

Please mark (✓) for the correct answer.

○ **A.** 1907

○ **B.** 1925

○ **C.** 1930

○ **D.** 1935

With which uprising is Mangal Pandey associated?

Please mark (✓) for the correct answer.

○ **A.** Barrackpur

○ **B.** Meerut

○ **C.** New Delhi

○ **D.** None of the above

Who was the Governor General of India during the Sepoy mutiny?

Please mark (✓) for the correct answer.

○ **A.** Lord Dalhousie

○ **B.** Lord Canning

○ **C.** Lord Lytton

○ **D.** Lord Wellesley

Who built the Badshahi at Fatehpur Sikri?

Please mark (✓) for the correct answer.

A. Akbar

B. Jahangir

C. Shahjahan

D. Aurangzeb

Which dynasty of Delhi Sultanate ruled for the shortest period?

Please mark (✓) for the correct answer.

A. Khilji

B. Tughlaq

C. Sayyid

D. Lodi

Who is called the Guardian of public purse?

Please mark (✓) for the correct answer.

A. President

B. Comptroller and Auditor-General

C. Parliament

D. Council of Ministers

Who was the Speaker of the first Lok Sabha?

Please mark (✓) for the correct answer.

A. Sardar Hukam Singh

B. G.V. Mavalankar

C. M. N. Kaul

D. M. A. Ayyangar

What is the colour of AgBr?

Please mark (✓) for the correct answer.

A. Blue

B. Brown

C. White

D. Yellow

According to Newton's second law of motion, change in momentum per unit time is equal to

Please mark (✓) for the correct answer.

○ **A.** Force

○ **B.** Energy

○ **C.** Acceleration

○ **D.** Work

Question: 103 of 150   QID: 5760   Marks: 2

What is the SI unit of electric charge?

Please mark (✓) for the correct answer.

○ **A.** Faraday

○ **B.** Coulomb

○ **C.** Ohm

○ **D.** Ampere

Question: 104 of 150   QID: 5761   Marks: 2

A bus travels 54 km in 90 minutes. The speed of the bus is

Please mark (✓) for the correct answer.

○ **A.** 6 m/s

○ **B.** 5.4 m/s

○ **C.** 3.6 m/s

○ **D.** 10 m/s

Question: 105 of 150   QID: 5762   Marks: 2

Name the part of the eye on which image is formed?

Please mark (✓) for the correct answer.

○ **A.** Lens

○ **B.** Optical nerve

○ **C.** Cornea

○ **D.** Retina

Question: 106 of 150   QID: 5763   Marks: 2

Who discovered the radioactivity?

Please mark (✓) for the correct answer.

○ **A.** Madam Curie

○ **B.** Faraday

○ **C.** Henri Becquerel

○ **D.** Hertz

Name the fabric which is used in making bulletproof jackets?

Please mark (✓) for the correct answer.

- A. Iron
- B. Aluminium
- C. Steel
- D. Kevlar

Who is the main producer of our ecosystem?

Please mark (✓) for the correct answer.

- A. Humans
- B. Bacteria
- C. Plants
- D. Animals

Name the veins that carry oxygenated blood from the heart to other parts of the body?

Please mark (✓) for the correct answer.

- A. Arteries
- B. Kidneys
- C. Both (a) & (b)
- D. None of the above

Which device is used for measuring air pressure?

Please mark (✓) for the correct answer.

- A. Seismograph
- B. Voltmeter
- C. Barometer
- D. Ammeter

The genes which give out antibiotic resistance to bacteria are located in

Please mark (✓) for the correct answer.

- A. Plasmid
- B. Nucleoid DNA
- C. RNA
- D. Nucleus

What is the basic principle of an electric generator?

Please mark (✓) for the correct answer.

○ **A.** Law of constant momentum   ○ **B.** Ohm's law

○ **C.** Fleming's left-hand rule   ○ **D.** Faraday's Law

Question: 113 of 150   QID: 5770   Marks: 2

Which of the following quantity increases in a group when we move from top to bottom in the Periodic table?

Please mark (✓) for the correct answer.

○ **A.** Valency   ○ **B.** Electron negativity

○ **C.** Atomic size   ○ **D.** Ionization energy

Question: 114 of 150   QID: 5771   Marks: 2

Name the non-metals which have high melting and boiling points.

Please mark (✓) for the correct answer.

○ **A.** Gallium   ○ **B.** Diamond

○ **C.** Cesium   ○ **D.** Lead

Question: 115 of 150   QID: 5772   Marks: 2

What is laser used in the pipe alignment?

Please mark (✓) for the correct answer.

○ **A.** They are directional in nature.   ○ **B.** They are coherent

○ **C.** They are monochromatic   ○ **D.** None of the above

Question: 116 of 150   QID: 5773   Marks: 2

The coating of the zinc or the steel or iron utensils is called:

Please mark (✓) for the correct answer.

○ **A.** Heat rendering   ○ **B.** Material plating

○ **C.** Galvanization or galvanizing   ○ **D.** Electro plating

Rheostat is the other name of:

Please mark (✓) for the correct answer.

A. Fixed resistance
B. Variable resistance
C. Insulator
D. Conductor

Which element is present in the exhaust of automobiles?

Please mark (✓) for the correct answer.

A. Lead
B. Calcium
C. Chloroform
D. Magnesium

The pheromone of marble cancer is due to

Please mark (✓) for the correct answer.

A. Soot particles
B. Fog
C. CFCs
D. Acid rain

The solid or liquid particles dispersed in the air are called

Please mark (✓) for the correct answer.

A. Oxides
B. Acids
C. Hydrocarbons
D. Aerosols

Carbon monoxide in vehicle exhaust causes

Please mark (✓) for the correct answer.

A. Increased oxygen carrying capacity of RBCs
B. Reduced Nitrogen carrying capacity of RBCs
C. Reduced oxygen carrying capacity of RBCs
D. Reduced carbon carrying capacity of RBCs

Greenhouse gas includes

Please mark (✓) for the correct answer.

- A. CO_2, Methane, Nitrous oxide
- B. CO_2, Argon, Nitrous oxide
- C. CO_2, Methane, Chlorine
- D. CO_2, Methane, Fluorine

Plastic wire is

Please mark (✓) for the correct answer.

- A. An insulator
- B. A conductor
- C. Both of these
- D. None of these

Adding common salt to distilled water makes it

Please mark (✓) for the correct answer.

- A. Good conductor
- B. Insulator
- C. None of (a) and (b)
- D. Both (a) and (b)

An electrolyte is

Please mark (✓) for the correct answer.

- A. A metal
- B. A nonmetal
- C. A liquid that conducts current
- D. All of the above

Which one of the following will come at the place of question mark (?)
25 : 350 :: 10 : ?

Please mark (✓) for the correct answer.

- A. 130
- B. 47
- C. 18
- D. 27

Choose out the odd one.

Please mark (✓) for the correct answer.

A. Medium

B. Average

C. Mediocre

D. Terrible

Study the following information carefully and answer the question given below:
A, B, C, D, E, F, G, and H are sitting around a circle facing to the centre. B is second to the left of H and third to the right of A. H is second to the right of F and the immediate neighbour of B. C is second to the right of B and F is third to the right of B. G is not an immediate neighbour of F.

How many of them are there between H and C?

Please mark (✓) for the correct answer.

A. Two

B. Three

C. Two or Three

D. Data inadequate

Study the following information carefully and answer the question given below:
A, B, C, D, E, F, G, and H are sitting around a circle facing to the centre. B is second to the left of H and third to the right of A. H is second to the right of F and the immediate neighbour of B. C is second to the right of B and F is third to the right of B. G is not an immediate neighbour of F.

Who is the immediate left of A?

Please mark (✓) for the correct answer.

A. H

B. C

C. G

D. Data inadequate

How many such pairs of letters are there in the word ELEVATION, each of which has as many letters between them in the word as they have between them in the English alphabet?

Please mark (✓) for the correct answer.

A. Four

B. One

C. Two

D. Three

From the following two different appearances of dice find out the number which is opposite to '5'
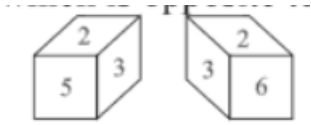
Please mark (✓) for the correct answer.

A. 2

B. 3

C. 4

D. 6

Indicate which figure will best represent the relationship among Birds, Crow, Eagles.

(a)   (b)   (c)   (d)
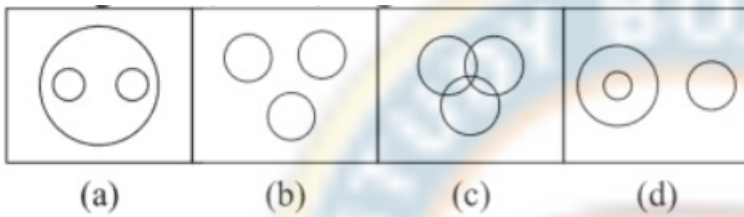
Please mark (✓) for the correct answer.

A. a

B. b

C. c

D. d

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

3, 5, 9, 17, ?

Please mark (✓) for the correct answer.

A. 65

B. 33

C. 42

D. 26

AZBY, CXDWEVFU, ?

Please mark (✓) for the correct answer.

A. SHIG

B. GXHW

C. GTHS

D. STHO

CGI, KOR, TXA, ?

Please mark (✓) for the correct answer.

A. ACE

B. JDP

C. DLK

D. UWY

In a given code SISTER is coded as 535301. UNCLE as 84670 and BOY as 129. How is RUSTIC written in that code?

Please mark (✓) for the correct answer.

A. 633185

B. 183536

C. 363815

D. 581363

If 'word' is coded as 2351184 then how will 'simple' be coded as?

Please mark (✓) for the correct answer.

A. 199327614

B. 199131265

C. 21237643

D. 22145783

If 'A' is substituted by 1, 'B' by 2 and so on up to 'Z' which is substituted by 26, what will be the sum of the numbers substituted for the word DECAY?

Please mark (✓) for the correct answer.

A. 38

B. 41

C. 40

D. 37

M is older than R, Q is younger than R and N is not as old as M. Who among M, N, R and Q is the oldest?

Please mark (✓) for the correct answer.

A. M

B. R

C. N

D. Data inadequate

2	7	9
7	3	4
9	8	?
126	168	216

Please mark (✓) for the correct answer.

A. 8

B. 3

C. 6

D. 36

If P denotes '÷', Q denotes '×', R denotes '+' and S denotes '–' then ?
16 Q12 P 6 R 5 S 4 = ?

Please mark (✓) for the correct answer.

A. 31

B. 32

C. 33

D. 30

If × stands for ÷, ÷ stands for +, + stands for –, and – stands for ×, then what is the value of

(30 + 20) – 5 (7 ÷ 3) × 25

Please mark (✓) for the correct answer.

A. 100

B. 10

C. 20

D. 25

Time appears in the mirror 11:09. Then what time will be apparent in clock?

Please mark (✓) for the correct answer.

A. 1:51

B. 12:09

C. 12:51

D. 1:09

If the 3rd day of a month is Tuesday, which of the following will be the 6th day from the 23rd of that month?

Please mark (✓) for the correct answer.

○ **A.** Sunday   ○ **B.** Saturday

○ **C.** Thursday   ○ **D.** Friday

Pointing to a photograph, Sachin said "She is the grandmother of my father's sister's son." How is the woman in the photograph related to Sachin?

Please mark (✓) for the correct answer.

○ **A.** Mother   ○ **B.** Grandmother

○ **C.** Cousin   ○ **D.** None of these

'Gram' is related to 'weight' in the same way as 'centimetre' is related to... ?

Please mark (✓) for the correct answer.

○ **A.** Area   ○ **B.** Volume

○ **C.** Length   ○ **D.** Sound

12 is related to 15 in the same way as 18 is related to...?

Please mark (✓) for the correct answer.

○ **A.** 24   ○ **B.** 21

○ **C.** 19   ○ **D.** 25

Among five friends Mahesh is taller than Karan but not Yash. Hrithik is taller than Yash but not Abhishek. If they stand in increasing order of their height, who will be first in line?

Please mark (✓) for the correct answer.

○ **A.** Abhishek   ○ **B.** Yash

○ **C.** Karan   ○ **D.** Data inadequate

Shiva, starting from his house, goes 5 km in the East, then he turns to his left and goes 4 km. Finally he turns to his left and goes 5 km. Now how far is he from his house and in what direction?

Please mark (✓) for the correct answer.

○ **A.** In East, at a distance of 5 km

○ **B.** In East, at a distance of 4 km

○ **C.** In West, at a distance of 4 km

○ **D.** In North, at a distance of 4 km

Suresh, starting from his house, goes 4 km in the East, then he turns to his right and goes 3 km. What minimum distance will be covered by him to come back to his house?

Please mark (✓) for the correct answer.

○ **A.** 4 km

○ **B.** 5 km

○ **C.** 6 km

○ **D.** 7 km

--- END OF QUESTION PAPER ---
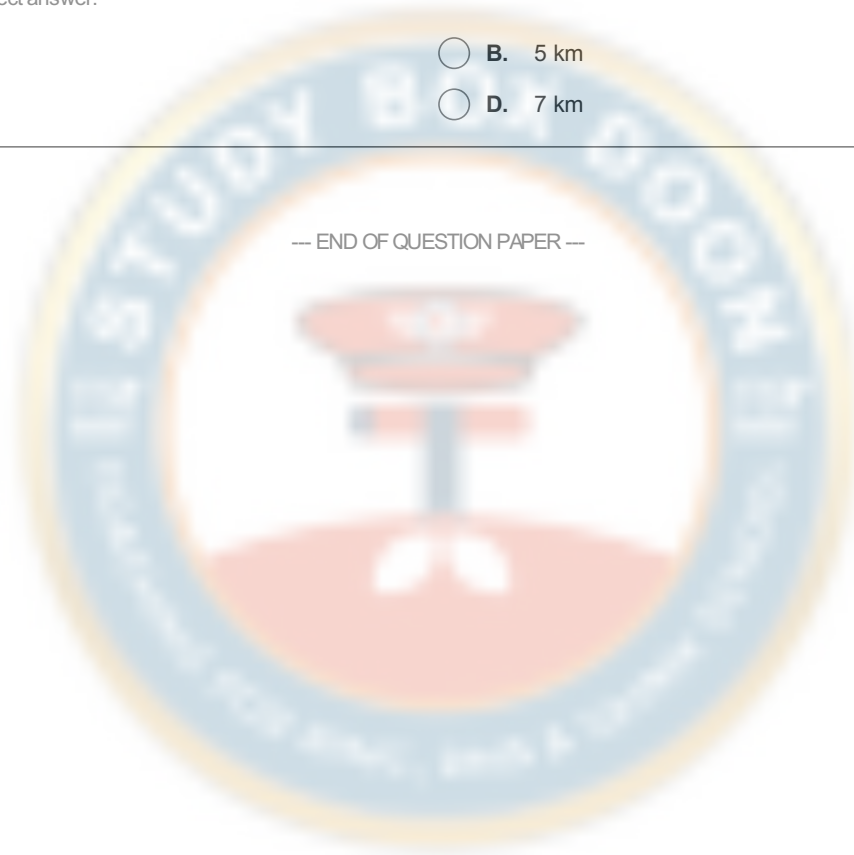
Answer Key

No	Question Type	QID	Correct Answer
Question - 1	Multiple Choice (Radiobutton)	5683	B
Question - 2	Multiple Choice (Radiobutton)	5684	D
Question - 3	Multiple Choice (Radiobutton)	5685	C
Question - 4	Multiple Choice (Radiobutton)	5686	A
Question - 5	Multiple Choice (Radiobutton)	5687	C
Question - 6	Multiple Choice (Radiobutton)	5688	B
Question - 7	Multiple Choice (Radiobutton)	5689	B
Question - 8	Multiple Choice (Radiobutton)	5690	A
Question - 9	Multiple Choice (Radiobutton)	5691	A
Question - 10	Multiple Choice (Radiobutton)	5692	A
Question - 11	Multiple Choice (Radiobutton)	5693	B
Question - 12	Multiple Choice (Radiobutton)	5709	B
Question - 13	Multiple Choice (Radiobutton)	5694	C
Question - 14	Multiple Choice (Radiobutton)	5695	A
Question - 15	Multiple Choice (Radiobutton)	5696	C
Question - 16	Multiple Choice (Radiobutton)	5697	C
Question - 17	Multiple Choice (Radiobutton)	5698	D
Question - 18	Multiple Choice (Radiobutton)	5699	D
Question - 19	Multiple Choice (Radiobutton)	5700	D
Question - 20	Multiple Choice (Radiobutton)	5701	D
Question - 21	Multiple Choice (Radiobutton)	5702	B
Question - 22	Multiple Choice (Radiobutton)	5703	C
Question - 23	Multiple Choice (Radiobutton)	5704	C
Question - 24	Multiple Choice (Radiobutton)	5705	C
Question - 25	Multiple Choice (Radiobutton)	5706	B
Question - 26	Multiple Choice (Radiobutton)	5707	A
Question - 27	Multiple Choice (Radiobutton)	5708	C
Question - 28	Multiple Choice (Radiobutton)	5710	D
Question - 29	Multiple Choice (Radiobutton)	5711	B
Question - 30	Multiple Choice (Radiobutton)	5712	D
Question - 31	Multiple Choice (Radiobutton)	5713	C
Question - 32	Multiple Choice (Radiobutton)	5714	D
Question - 33	Multiple Choice (Radiobutton)	5715	A
Question - 34	Multiple Choice (Radiobutton)	5716	B
Question - 35	Multiple Choice (Radiobutton)	5717	B
Question - 36	Multiple Choice (Radiobutton)	5718	B
Question - 37	Multiple Choice (Radiobutton)	5719	D
Question - 38	Multiple Choice (Radiobutton)	5720	A
Question - 39	Multiple Choice (Radiobutton)	5721	C
Question - 40	Multiple Choice (Radiobutton)	5722	C
Question - 41	Multiple Choice (Radiobutton)	5723	B
Question - 42	Multiple Choice (Radiobutton)	5724	C

No	Question Type	QID	Correct Answer
Question - 43	Multiple Choice (Radiobutton)	5725	B
Question - 44	Multiple Choice (Radiobutton)	5726	C
Question - 45	Multiple Choice (Radiobutton)	5727	A
Question - 46	Multiple Choice (Radiobutton)	5728	B
Question - 47	Multiple Choice (Radiobutton)	5729	D
Question - 48	Multiple Choice (Radiobutton)	5730	B
Question - 49	Multiple Choice (Radiobutton)	5731	B
Question - 50	Multiple Choice (Radiobutton)	5732	B
Question - 51	Multiple Choice (Radiobutton)	5733	C
Question - 52	Multiple Choice (Radiobutton)	5734	C
Question - 53	Multiple Choice (Radiobutton)	5735	C
Question - 54	Multiple Choice (Radiobutton)	5736	A
Question - 55	Multiple Choice (Radiobutton)	5737	C
Question - 56	Multiple Choice (Radiobutton)	5738	C
Question - 57	Multiple Choice (Radiobutton)	5739	A
Question - 58	Multiple Choice (Radiobutton)	5740	A
Question - 59	Multiple Choice (Radiobutton)	5741	A
Question - 60	Multiple Choice (Radiobutton)	5742	C
Question - 61	Multiple Choice (Radiobutton)	5743	B
Question - 62	Multiple Choice (Radiobutton)	5744	C
Question - 63	Multiple Choice (Radiobutton)	5745	C
Question - 64	Multiple Choice (Radiobutton)	5746	B
Question - 65	Multiple Choice (Radiobutton)	5747	C
Question - 66	Multiple Choice (Radiobutton)	5748	C
Question - 67	Multiple Choice (Radiobutton)	5749	B
Question - 68	Multiple Choice (Radiobutton)	5750	B
Question - 69	Multiple Choice (Radiobutton)	5751	B
Question - 70	Multiple Choice (Radiobutton)	5752	B
Question - 71	Multiple Choice (Radiobutton)	5753	C
Question - 72	Multiple Choice (Radiobutton)	5754	D
Question - 73	Multiple Choice (Radiobutton)	5755	D
Question - 74	Multiple Choice (Radiobutton)	5756	B
Question - 75	Multiple Choice (Radiobutton)	5757	A
Question - 76	Multiple Choice (Radiobutton)	5833	B
Question - 77	Multiple Choice (Radiobutton)	5834	D
Question - 78	Multiple Choice (Radiobutton)	5835	D
Question - 79	Multiple Choice (Radiobutton)	5836	A
Question - 80	Multiple Choice (Radiobutton)	5837	C
Question - 81	Multiple Choice (Radiobutton)	5838	A
Question - 82	Multiple Choice (Radiobutton)	5839	C
Question - 83	Multiple Choice (Radiobutton)	5840	B
Question - 84	Multiple Choice (Radiobutton)	5841	C
Question - 85	Multiple Choice (Radiobutton)	5842	C
Question - 86	Multiple Choice (Radiobutton)	5843	A
Question - 87	Multiple Choice (Radiobutton)	5844	A
Question - 88	Multiple Choice (Radiobutton)	5845	C

No	Question Type	QID	Correct Answer
Question - 89	Multiple Choice (Radiobutton)	5846	A
Question - 90	Multiple Choice (Radiobutton)	5847	C
Question - 91	Multiple Choice (Radiobutton)	5848	A
Question - 92	Multiple Choice (Radiobutton)	5849	B
Question - 93	Multiple Choice (Radiobutton)	5850	B
Question - 94	Multiple Choice (Radiobutton)	5851	B
Question - 95	Multiple Choice (Radiobutton)	5852	A
Question - 96	Multiple Choice (Radiobutton)	5853	B
Question - 97	Multiple Choice (Radiobutton)	5854	A
Question - 98	Multiple Choice (Radiobutton)	5855	A
Question - 99	Multiple Choice (Radiobutton)	5856	B
Question - 100	Multiple Choice (Radiobutton)	5857	B
Question - 101	Multiple Choice (Radiobutton)	5758	D
Question - 102	Multiple Choice (Radiobutton)	5759	A
Question - 103	Multiple Choice (Radiobutton)	5760	B
Question - 104	Multiple Choice (Radiobutton)	5761	B
Question - 105	Multiple Choice (Radiobutton)	5762	C
Question - 106	Multiple Choice (Radiobutton)	5763	B
Question - 107	Multiple Choice (Radiobutton)	5764	D
Question - 108	Multiple Choice (Radiobutton)	5765	C
Question - 109	Multiple Choice (Radiobutton)	5766	A
Question - 110	Multiple Choice (Radiobutton)	5767	C
Question - 111	Multiple Choice (Radiobutton)	5768	A
Question - 112	Multiple Choice (Radiobutton)	5769	D
Question - 113	Multiple Choice (Radiobutton)	5770	B
Question - 114	Multiple Choice (Radiobutton)	5771	B
Question - 115	Multiple Choice (Radiobutton)	5772	A
Question - 116	Multiple Choice (Radiobutton)	5773	C
Question - 117	Multiple Choice (Radiobutton)	5774	B
Question - 118	Multiple Choice (Radiobutton)	5775	A
Question - 119	Multiple Choice (Radiobutton)	5776	D
Question - 120	Multiple Choice (Radiobutton)	5777	D
Question - 121	Multiple Choice (Radiobutton)	5778	C
Question - 122	Multiple Choice (Radiobutton)	5779	A
Question - 123	Multiple Choice (Radiobutton)	5780	A
Question - 124	Multiple Choice (Radiobutton)	5781	A
Question - 125	Multiple Choice (Radiobutton)	5782	C
Question - 126	Multiple Choice (Radiobutton)	5871	A
Question - 127	Multiple Choice (Radiobutton)	5872	D
Question - 128	Multiple Choice (Radiobutton)	5858	B
Question - 129	Multiple Choice (Radiobutton)	5859	B
Question - 130	Multiple Choice (Radiobutton)	5860	A
Question - 131	Multiple Choice (Radiobutton)	5861	D
Question - 132	Multiple Choice (Radiobutton)	5862	A
Question - 133	Multiple Choice (Radiobutton)	5873	B
Question - 134	Multiple Choice (Radiobutton)	5874	C
Question - 135	Multiple Choice (Radiobutton)	5875	C

No	Question Type	QID	Correct Answer
Question - 136	Multiple Choice (Radiobutton)	5876	B
Question - 137	Multiple Choice (Radiobutton)	5877	B
Question - 138	Multiple Choice (Radiobutton)	5878	A
Question - 139	Multiple Choice (Radiobutton)	5879	A
Question - 140	Multiple Choice (Radiobutton)	5863	C
Question - 141	Multiple Choice (Radiobutton)	5864	C
Question - 142	Multiple Choice (Radiobutton)	5865	C
Question - 143	Multiple Choice (Radiobutton)	5866	C
Question - 144	Multiple Choice (Radiobutton)	5867	B
Question - 145	Multiple Choice (Radiobutton)	5868	D
Question - 146	Multiple Choice (Radiobutton)	5869	C
Question - 147	Multiple Choice (Radiobutton)	5870	B
Question - 148	Multiple Choice (Radiobutton)	5880	C
Question - 149	Multiple Choice (Radiobutton)	5881	D
Question - 150	Multiple Choice (Radiobutton)	5882	B

--- END OF ANSWER KEY ---