

Q.25 Motion of an object is _____ if its velocity is constant.

- Ans
- ☒ 1. only accelerating
 - ☒ 2. only decelerating
 - ☒ 3. non-uniform
 - ☒ 4. uniform

Question ID : 264330105470
Status : Answered
Chosen Option : 4

Section : Quantitative Aptitude

Q.1 $\cos^2 35^\circ + \cos 55^\circ \cdot \sin 35^\circ + \frac{\tan 34^\circ}{\cot 56^\circ} = \underline{\hspace{2cm}}$.

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

Question ID : 26433056360
Status : Answered
Chosen Option : 1

Q.2 The total surface area of a cube is 1536 m^2 . Find its volume.

- Ans
- ☒ 1. 216 m^3
 - ☒ 2. 125 m^3
 - ☒ 3. 4096 m^3
 - ☒ 4. 729 m^3

Question ID : 26433063910
Status : Answered
Chosen Option : 3

Q.3 A certain sum of money becomes triple of itself in 26 years at simple interest. In how many years it will becomes five times of itself?

- Ans
- ☒ 1. 64 years
 - ☒ 2. 52 years
 - ☒ 3. 56 years
 - ☒ 4. 60 years

Question ID : 264330105673
Status : Not Answered
Chosen Option : --

Q.4 On dividing a certain number by 363, we get 17 as the remainder. What will be the remainder when the same number is divided by 11?

- Ans
- ☒ 1. 7
 - ☒ 2. 8
 - ☒ 3. 6
 - ☒ 4. 9

Question ID : 26433075179
Status : Not Answered
Chosen Option : --

Q.5 If $a - b = 2$ and $a^3 - b^3 = 80$, then what will be the value of ab ?

- Ans** ☒ 1. 12
☒ 2. -24
☒ 3. 24
☒ 4. -12

Question ID : 26433076425
 Status : Not Answered
 Chosen Option : --

Q.6 If $\frac{1}{x^2 + a^2} = x^2 - a^2$, then the value of x is:

- Ans** ☒ 1. $(1 - a^4)^{1/4}$
☒ 2. a
☒ 3. $(a^4 - 1)^{1/4}$
☒ 4. $(a^4 + 1)^{1/4}$

Question ID : 26433079988
 Status : Not Answered
 Chosen Option : --

Q.7 The following table shows the shares traded on Mumbai, Rajasthan, Uttar Pradesh and Uttarakhand stock exchanges:

Name of the company	Mumbai		Uttarakhand		Rajasthan		Uttar Pradesh	
	High	Low	High	Low	High	Low	High	Low
Aata tea	540	395	450	4255	320	510	440	310
Kolgate	34	57	60	42	25	60	20	70
Jmbuja cement	150	155	120	125	160	135	145	170

The average of the high rates of the shares in all the four stock exchanges for Kolgate is:

- Ans** ☒ 1. ₹34.75
☒ 2. ₹51.07
☒ 3. ₹52.04
☒ 4. ₹63.21

Question ID : 26433080058
 Status : Answered
 Chosen Option : 1

Q.8 The speed of a boat in still water is $5\frac{1}{3}$ km/h. It is found that the boat takes thrice as much time to row up than it does to row down the same distance in the river stream. Find the speed of the river stream.

- Ans**
- ☒ 1. $\frac{23}{27}$ m/sec
 - ☒ 2. $\frac{22}{27}$ m/sec
 - ☒ 3. $\frac{20}{27}$ m/sec
 - ☒ 4. $\frac{19}{27}$ m/sec

Question ID : 26433074730
Status : Not Answered
Chosen Option : --

Q.9 The largest five-digit number which when divided by 7, 9 and 11, leaves the same remainder as 3 in each case, is:

- Ans**
- ☒ 1. 95840
 - ☒ 2. 98685
 - ☒ 3. 96720
 - ☒ 4. 99795

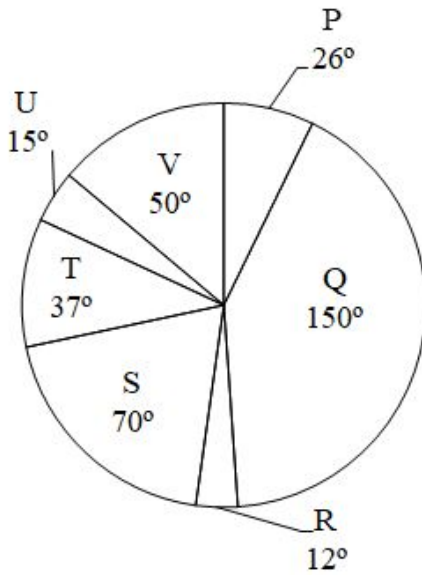
Question ID : 26433079823
Status : Not Answered
Chosen Option : --

Q.10 If the ratio of area of two similar triangles is $\sqrt{3} : \sqrt{2}$ then what is the ratio of the corresponding sides of the two triangles?

- Ans**
- ☒ 1. 9 : 4
 - ☒ 2. 3 : 2
 - ☒ 3. $\sqrt[3]{3} : \sqrt[3]{2}$
 - ☒ 4. $\sqrt[4]{3} : \sqrt[4]{2}$

Question ID : 264330105827
Status : Answered
Chosen Option : 4

Q.11 The pie chart given below shows the sales of 7 different companies. The total sales of all these 7 companies is 2160. The sale of a particular company is shown in terms of degree with respect to the total sales of all these 7 companies.



The total sales of P, R and S are how much percent less than the total sales of Q, T and U?

- Ans
- ☒ 1. 56.42 percent
 - ☒ 2. 24.42 percent
 - ☒ 3. 46.53 percent
 - ☒ 4. 32.32 percent

Question ID : 264330105777
Status : Not Answered
Chosen Option : --

Q.12 $\sqrt{\frac{1+\cos\theta}{1-\cos\theta}} + \sqrt{\frac{1-\cos\theta}{1+\cos\theta}} = \underline{\hspace{2cm}}.$

- Ans
- ☒ 1. $2 \sin \theta$
 - ☒ 2. $2 \cos \theta$
 - ☒ 3. $2 \operatorname{cosec} \theta$
 - ☒ 4. $2 \sec \theta$

Question ID : 26433058179
Status : Answered
Chosen Option : 1

Q.13 The table given below shows the marks obtained by two students in 6 subjects.

Subjects	Students	
	A	B
P	180	90
Q	240	420
R	360	390
S	300	210
T	60	270
U	330	120

What is the difference between the total marks obtained by A and B in all the 6 subjects?

- Ans ☒ 1. 40
☒ 2. 30
☒ 3. 20
☒ 4. 50

Question ID : 264330105738
 Status : Answered
 Chosen Option : 2

Q.14 $\triangle ABC$ and $\triangle DEF$ are congruent respectively. If $AB = 6 = DE$, $BC = 8 = EF$ and $m \angle B = 30^\circ$, then $m \angle D + m \angle C =$ _____.

- Ans ☒ 1. 160°
☒ 2. 120°
☒ 3. 130°
☒ 4. 150°

Question ID : 26433066250
 Status : Answered
 Chosen Option : 4

Q.15 The following table gives the percentage of marks obtained by six students in six different subjects in an examination.

	English (100)	Science (100)	Mathematics (100)	Social Science (100)	Hindi (100)	Computer Science (100)
A	75	58	72	68	63	73
B	82	85	74	36	52	65
C	65	58	61	63	68	75
D	84	78	72	73	65	68
E	78	72	59	63	71	72
F	74	68	75	82	88	86

The number of students who obtained 60% marks and above in all subjects is:

- Ans ☒ 1. 3
☒ 2. 1
☒ 3. 2
☒ 4. 4

Question ID : 26433082621
 Status : Answered
 Chosen Option : 3

Q.16 If an angle of a right-angled triangle is 35° , then find the other angles.

- Ans
- ☒ 1. 90° and 75°
 - ☒ 2. 90° and 35°
 - ☒ 3. 90° and 55°
 - ☒ 4. 90° and 45°

Question ID : 26433074347
Status : Answered
Chosen Option : 3

Q.17 A dishonest dealer sells a product at 11% loss on cost price, but uses 22% less weight. What is his percentage profit or loss?

- Ans
- ☒ 1. 14.1% loss
 - ☒ 2. 14.1% gain
 - ☒ 3. 11.4% gain
 - ☒ 4. 11.4 % loss

Question ID : 26433065072
Status : Not Answered
Chosen Option : --

Q.18 A shopkeeper earns 10% on an investment but loses 20% on another investment. If the ratio of the two investments is 2 : 3, then the combined loss percentage is:

- Ans
- ☒ 1. 5.5%
 - ☒ 2. 7%
 - ☒ 3. 6%
 - ☒ 4. 8%

Question ID : 26433075490
Status : Answered
Chosen Option : 4

Q.19 Which of the following statement is correct?

I. The value of $100^2 - 99^2 + 98^2 - 97^2 + 96^2 - 95^2 + 94^2 - 93^2 + \dots + 22^2 - 21^2$ is 4840.

II. The value of

$$\left(k^2 + \frac{1}{k^2}\right) \left(k - \frac{1}{k}\right) \left(k^4 + \frac{1}{k^4}\right) \left(k + \frac{1}{k}\right) \left(k^4 - \frac{1}{k^4}\right) \text{ is } k^{16} - \frac{1}{k^{16}}.$$

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

Question ID : 264330105967
Status : Not Answered
Chosen Option : --

Q.20 A contractor decided to complete a work in 80 days and employed 60 men at the beginning and 20 men additionally after 20 days and got the work completed as per schedule. If he had not employed the additional men, how many extra days would he have needed to complete the work (round off to the nearest integer)?

- Ans
- ☒ 1. 32 days
 - ☒ 2. 20 days
 - ☒ 3. 30 days
 - ☒ 4. 26 days

Question ID : 26433075244
Status : Not Answered
Chosen Option : --

Q.21 The length of the side of a cube is 4.2 cm. What is the volume of the largest sphere that can be taken out of the cube?

- Ans
- ☒ 1. 26.40 cm³
 - ☒ 2. 20.50 cm³
 - ☒ 3. 38.80 cm³
 - ☒ 4. 48.60 cm³

Question ID : 264330105883
Status : Not Answered
Chosen Option : --

Q.22 A tradesman marks his goods 20% above his cost price. If he allows his customer 20% discount on the marked price, how much profit or loss does he make, if any:

- Ans
- ☒ 1. 2% loss
 - ☒ 2. 4% loss
 - ☒ 3. 1% profit
 - ☒ 4. 3% profit

Question ID : 26433075386
Status : Answered
Chosen Option : 2

Q.23 What will be the value of $\cos x \operatorname{cosec} x - \sin x \sec x$?

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

Question ID : 264330105911
Status : Answered
Chosen Option : 3

Q.24 A varies directly as the positive square root of B, and inversely as the cube of C. If A = 15, when B = 27 and C = 2, then find B when A = 9 and C = 2.

- Ans
- ☒ 1. $\frac{281}{42}$
 - ☒ 2. $\frac{243}{25}$
 - ☒ 3. $\frac{264}{37}$
 - ☒ 4. $\frac{275}{51}$

Question ID : 26433063788
Status : Not Answered
Chosen Option : --

Q.25 The average weight of 5 men decreases by 3 kg when one of them weighing 150 kg is replaced by another person. Find the weight of the new person.

- Ans
- ☒ 1. 125 kg
 - ☒ 2. 100 kg
 - ☒ 3. 120 kg
 - ☒ 4. 135 kg

Question ID : 26433075272
Status : Not Answered
Chosen Option : --

Section : English Comprehension

Q.1 Select the correct passive form of the given sentence.
My parents have booked a mini-getaway for me.

- Ans
- ☒ 1. A mini-getaway was being booked for me by my parents.
 - ☒ 2. A mini-getaway had been booked for me by my parents.
 - ☒ 3. A mini-getaway was been booked for me by my parents.
 - ☒ 4. A mini-getaway have been booked for me by my parents.

Question ID : 264330104566
Status : Answered
Chosen Option : 4

Q.2 The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

There are some monkeys / on the roof of the / carriage but Madhav / did not see them.

- Ans
- ☒ 1. on the roof of the
 - ☒ 2. There are some monkeys
 - ☒ 3. carriage but Madhav
 - ☒ 4. did not see them.

Question ID : 26433092270
Status : Answered
Chosen Option : 4