

Q.22 During which of the following period Ostriches were found in India?

- Ans 1. Mesolithic
 2. Chalcolithic
 3. Neolithic
 4. Palaeolithic

Question ID : 264330105163

Status : Answered

Chosen Option : 2

Q.23 The Maharashtra Department of Prisons has launched a loan scheme for inmates serving sentences in jails across the state. This credit scheme is titled _____.

- Ans 1. Jivhala
 2. Kishore
 3. Sukanya
 4. Swavlamban

Question ID : 264330105283

Status : Answered

Chosen Option : 4

Q.24 In which state is the Maihar court where Baba Allauddin Khan was a musician?

- Ans 1. Tripura
 2. Uttar Pradesh
 3. Madhya Pradesh
 4. Chhattisgarh

Question ID : 26433064787

Status : Not Answered

Chosen Option : --

Q.25 Which company has set up a factory on the banks of river Hugli in 1651?

- Ans 1. Danish
 2. Portuguese
 3. English
 4. French

Question ID : 264330105554

Status : Answered

Chosen Option : 3

Section : Quantitative Aptitude

Q.1 If the ratio of corresponding sides of two similar triangles is $\sqrt{3} : \sqrt{2}$ then what is the ratio of the area of the two triangles?

- Ans 1. 3 : 2
 2. 9 : 4
 3. $\sqrt{3} : \sqrt{2}$
 4. 27 : 8

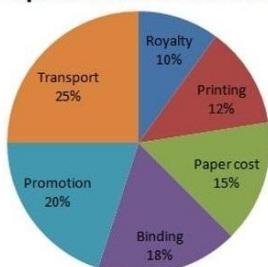
Question ID : 264330105821

Status : Answered

Chosen Option : 1

- Q.2** Various expenditures incurred by a publishing company for publishing a book in 2018 are given in the following pie-chart. Study the chart and answer the question.

Expenditures of the company



Price printed on a book is 15% above the cost price. If the price printed on a book is ₹942, then the cost of paper for a single copy in ₹ is (rounded off to one decimal place)

- Ans
- 1. ₹122.9
 - 2. ₹188.5
 - 3. ₹182.5
 - 4. ₹220.6

Question ID : 26433080060

Status : Answered

Chosen Option : 1

- Q.3** In a 100-m race, A beats B by 20 m and B beats C by 20 m. By how much distance does A beat C.

- Ans
- 1. 64 m
 - 2. 24 m
 - 3. 25 m
 - 4. 36 m

Question ID : 26433075276

Status : Not Attempted and
Marked For Review

Chosen Option : --

- Q.4** If one man or two women or four boys or five girls can finish a work in 39 days, then how many days will one man, one woman, one boy and one girl together take to finish the same work?

- Ans
- 1. 40
 - 2. 10
 - 3. 30
 - 4. 20

Question ID : 26433079895

Status : Not Answered

Chosen Option : --

Q.5 The value of $\cot 15^\circ \cot 25^\circ \cot 45^\circ \cot 75^\circ \cot 65^\circ$ is:

Ans 1

2. $\sqrt{3}$

3. 2

4. $\sqrt{2}$

Question ID : 26433081628

Status : Answered

Chosen Option : 1

Q.6 In triangle PQR, right angled at Q, if $\cot P = \sqrt{3}$, then the value of $\sin P$ is:

Ans 1

2. $\frac{1}{\sqrt{3}}$

3. $\frac{\sqrt{3}}{2}$

4. $\frac{1}{2}$

Question ID : 26433061178

Status : Answered

Chosen Option : 4

Q.7 The difference of two numbers is 1564. After dividing the larger number by the smaller, we get 6 as quotient and 19 as remainder. What is the smaller number?

Ans 1. 456

2. 287

3. 623

4. 309

Question ID : 26433063766

Status : Not Answered

Chosen Option : --

Q.8 If $a + b + c = 6$, $a^2 + b^2 + c^2 = 14$ and $ab + bc + ca = 11$, then what is the value of $a^3 + b^3 + c^3 - 3abc$?

Ans 1. 31

2. 12

3. 18

4. 42

Question ID : 26433065325

Status : Answered

Chosen Option : 3

Q.9 The length of the tangent to a circle from a point P is 15 cm. Point P is 17 cm away from the centre. What is the radius of the circle?

- Ans 1. 7 cm
 2. 9 cm
 3. 8 cm
 4. 4 cm

Question ID : 26433074484

Status : Answered

Chosen Option : 3

Q.10 Side of an equilateral triangle is 24 cm. What will be the radius of in circle of this equilateral triangle?

- Ans 1. 6 cm
 2. 12 cm
 3. 8 cm
 4. 3 cm

Question ID : 264330105839

Status : Not Attempted and
Marked For Review

Chosen Option : --

Q.11 The radius of a right circular cylinder is five times of its height. If the height of the cylinder is 3.5 cm, then what is the volume of cylinder?

- Ans 1. 3368.75 cm^3
 2. 3872.75 cm^3
 3. 3146.75 cm^3
 4. 3524.25 cm^3

Question ID : 264330105887

Status : Answered

Chosen Option : 1

Q.12 In an election between two candidates, 12% of voters did not cast their votes. The winner by obtaining 68% of the total votes defeated his contestant by 2880 votes. What was the total number of voters who cast their votes in the election?

- Ans 1. 5280
 2. 8000
 3. 4000
 4. 6000

Question ID : 26433075347

Status : Not Attempted and
Marked For Review

Chosen Option : --

- Q.13** A cuboid of length 36 m, breadth 18 m and height 9 m is melted and recast into a cube.
 Find the length of the diagonal of the cube.

Ans 1. $18\sqrt{3}$ m

2. $15\sqrt{3}$ m

3. $12\sqrt{3}$ m

4. $17\sqrt{3}$ m

Question ID : 26433065028

Status : Answered

Chosen Option : 1

- Q.14** The following table shows the number of delivery partners (in thousands) who joined five different companies during six different years.

Year	Companies				
	Emazon	Clipkart	Twiggy	Tomato	Pyntra
2016	2.4	4.5	1.2	0.9	4.2
2017	1.8	5.4	1.5	1.2	5.6
2018	3.2	7.2	2.4	2.1	6.3
2019	3.9	5.6	2.8	2.7	6.5
2020	4.2	6.4	3.2	3.3	7.0
2021	5.0	7.2	3.6	3.6	7.2

Find the percentage increase in the number of delivery partners that joined Pyntra from 2017 to 2021.

Ans 1. 26.57%

2. 25.87%

3. 27.58%

4. 28.57%

Question ID : 26433076414

Status : Answered

Chosen Option : 4

- Q.15** Simplify the following.

$$\frac{762 \times 762 \times 762 + 316 \times 316 \times 316}{762 \times 762 - 762 \times 316 + 316 \times 316}$$

Ans 1. 1064

2. 1056

3. 1042

4. 1078

Question ID : 26433080388

Status : Answered

Chosen Option : 4

Q.16 The price of some wooden furniture increases by 65% when it passes through three hands. If the first and second sellers made a profit of 20% and 25%, respectively, then find the profit percentage of the third seller.

- Ans 1. 10%
 2. 12.5%
 3. 16%
 4. 8%

Question ID : 26433065273

Status : Answered

Chosen Option : 1

Q.17 What is the ratio of the fourth proportional of 2, 5, 6 and the fourth proportional of 6, 8, 9?

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

Question ID : 26433064986

Status : Answered

Chosen Option : 4

Q.18 If a man travels at $\frac{1}{x}$ km/h on a journey and returns at $\frac{1}{x^2}$ km/h, then his average speed for the journey is:

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

Question ID : 26433061611

Status : Answered

Chosen Option : 2

Q.19 If $k^4 + \frac{1}{k^4} = 194$, then what is the value of $k^3 + \frac{1}{k^3}$?

- Ans 1. 42
 2. 52
 3. 36
 4. 18

Question ID : 264330105947

Status : Answered

Chosen Option : 2

Q.20 The HCF of two numbers 2040 and 391 is:

- Ans 1. 17
 2. 21
 3. 16
 4. 18

Question ID : 26433079817
 Status : **Marked For Review**
 Chosen Option : 1

Q.21 What annual instalment will discharge a debit of ₹5,664 in 4 years at 12% simple interest?

- Ans 1. ₹1,230
 2. ₹1,210
 3. ₹1,200
 4. ₹1,220

Question ID : 26433076097
 Status : **Not Answered**
 Chosen Option : --

Q.22 The table given below shows the production of five companies in two years.

Company	Years	
	Y1	Y2
A	50	100
B	90	120
C	30	80
D	80	50
E	20	40

J1= The average production of A in year Y1 and Y2.
 J2 = Sum of production of B, C and D in year Y1 and Y2.
 What is the value of (J2/J1)?

- Ans 1. 4
 2. 5
 3. 3
 4. 6

Question ID : 264330105711
 Status : **Answered**
 Chosen Option : 4

Q.23 Study the given table and answer the question that follows.

Find the difference between the number of female students and male students who opted biology in school C.

School name	Total number of students enrolled	Percentage of enrolled students, opted Biology	Ratio of male to female students who opted Biology
A	900	30	7:8
B	400	38	9:10
C	1000	24	1:2
D	800	18	5:7

Ans 1. 240

2. 160

3. 200

4. 80

Question ID : 26433092151

Status : Answered

Chosen Option : 1

Q.24 How far will the tip of a 2cm-long minute hand of a clock move in 45 minutes?

Ans 1. π cm

2. 3π cm

3. 4π cm

4. 2π cm

Question ID : 26433061605

Status : Answered

Chosen Option : 2

Q.25 Sunil purchased a fan at a 10% discount on the labelled price. If he had purchased it at a 15% discount, he would have saved ₹400. Find the labelled price of the fan.

Ans 1. ₹8,400

2. ₹7,500

3. ₹800

4. ₹8,000

Question ID : 26433076183

Status : Answered

Chosen Option : 4

Section : English Comprehension

Q.1 Select the option that can be used as a one-word substitute for the given group of words/phrase.

Adjust or make right; correct, amend

Ans 1. Recruit

2. Recreate

3. Recourse

4. Rectify

Question ID : 26433059785

Status : Answered

Chosen Option : 4

Q.24 Mirza Kamran was the brother of which Mughal emperor?

- Ans 1. Humayun
 2. Akbar
 3. Jahangir
 4. Shah Jahan

Question ID : 264330105433

Status : Answered

Chosen Option : 1

Q.25 Which of the following folk dances is primarily performed in the Indian state of Bihar?

- Ans 1. Ghoomar
 2. Kalbeliya
 3. Bidesia
 4. Kummatti

Question ID : 26433064292

Status : Answered

Chosen Option : 3

Section : Quantitative Aptitude

Q.1 The radius of a right circular cylinder is thrice of its height. If the height of the cylinder is 2.1 cm, then what is the volume of cylinder?

- Ans 1. 224.65 cm^3
 2. 194.72 cm^3
 3. 324.86 cm^3
 4. 261.95 cm^3

Question ID : 264330105886

Status : Answered

Chosen Option : 4

Q.2 5 men and 8 women can complete a work in 12 days working together, while 3 men and 7 women together can complete the same work in 15 days. In how many days will 11 women complete the same work?

- Ans 1. 12
 2. 8
 3. 6
 4. 16

Question ID : 26433076404

Status : Answered

Chosen Option : 1

Q.3 Study the given table and answer the question that follows.

The daily wages of 50 employees of a company is shown in the table.

Daily wages Interval	Frequency (No. of Employee)
80-90	9
90-100	3
100-110	31
110-120	5
120-130	2

Select the correct statement from the following options.

- Ans 1. The average wage of the employees lie between 80-90.
 2. The average wage of the employees lie between 110-120.
 3. The average wage of the employees lie between 100-110.
 4. The average wage of the employees lie between 90-100.

Question ID : 26433082690

Status : Answered

Chosen Option : 3

Q.4 If $\frac{k - k \cot^2 30^\circ}{1 + \cot^2 30^\circ} = \sin^2 60^\circ + 4 \tan^2 45^\circ - \operatorname{cosec}^2 60^\circ$, then the value of k (correct to two decimal places) is:

- Ans 1. 5.55
 2. -6.83
 3. -5.58
 4. 6.83

Question ID : 26433075027

Status : Answered

Chosen Option : 2

Q.5 A man bought a watch for 12% discount. If he had bought it for 24% discount, he would have got the watch for ₹2400 less. The marked price of the watch is:

- Ans 1. ₹30,000
 2. ₹22,500
 3. ₹20,000
 4. ₹25,000

Question ID : 26433076270

Status : Answered

Chosen Option : 3

Q.6 If the price of salt decreases by 20%, then by what percentage should consumption be increased to keep the expenditure same?

- Ans 1. 26%
 2. 27%
 3. 25%
 4. 24%

Question ID : 26433075876

Status : Answered

Chosen Option : 3

Q.7 A solid copper sphere of radius 9 cm is hammered and moulded into a wire of radius 2 cm. What is the length of this wire?

- Ans 1. 224 cm
 2. 183 cm
 3. 198 cm
 4. 243 cm

Question ID : 26433063972

Status : Answered

Chosen Option : 4

Q.8 Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them?

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

Question ID : 26433063942

Status : Answered

Chosen Option : 4

Q.9 A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is:

- Ans 1. Rs.350
 2. Rs.375
 3. Rs.415
 4. Rs.435

Question ID : 26433061129

Status : Answered

Chosen Option : 4

Q.10 A,B,C are three angles of a triangle. If $A - B = 45^\circ$ and $B - C = 15^\circ$ then $\angle A = ?$

- Ans 1. 83°
 2. 85°
 3. 95°
 4. 75°

Question ID : 26433075420

Status : Answered

Chosen Option : 3

Q.11 If $8a^3 + 27b^3 = 16$ and $2a + 3b = 4$, then find the value of $16a^4 + 81b^4$.

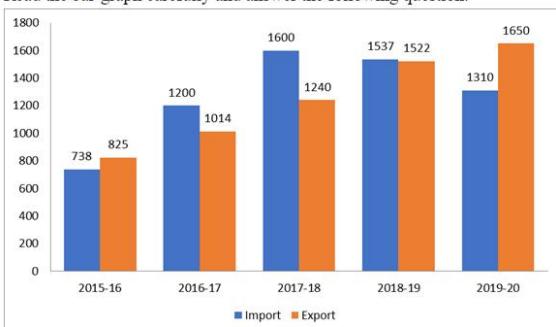
- Ans 1. 26
 2. 30
 3. 28
 4. 32

Question ID : 26433083026

Status : Not Answered

Chosen Option : --

- Q.12** The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph.
Read the bar-graph carefully and answer the following question.



What is the average of exports during the given period of time?

- Ans 1. Rs.1,250.2 lakhs
 2. Rs.1,240.0 lakhs
 3. Rs.1,248.2 lakhs
 4. Rs.1,115.4 lakhs

Question ID : 26433080346

Status : Answered

Chosen Option : 1

- Q.13** If the cost price is 72% of the selling price, then what is the percentage of profit?
(Correct to 2 decimal places)

- Ans 1. 38.89%
 2. 35.75%
 3. 32.25%
 4. 28.75%

Question ID : 26433063691

Status : Answered

Chosen Option : 1

- Q.14** What would be the compound interest on Rs.15,750 at 20% per annum, in two years, if the interest is compounded half yearly?

- Ans 1. Rs.5,213.25
 2. Rs.3,307.5
 3. Rs.7,305.975
 4. Rs.7,309.575

Question ID : 26433092147

Status : Answered

Chosen Option : 3

- Q.15** एक पुलिसकर्मी को 500 m की दूरी पर चेन सैचर दिखाई देता है। वह 5m/s की चाल से दौड़ रहे चेन सैचर का पीछा करना शुरू कर देता है, जबकि पुलिसकर्मी 15 m/s की चाल से उसका पीछा कर रहा होता है। जब चेन सैचर को पुलिसकर्मी द्वारा पकड़ा जाता है, तब तक चेन सैचर कितनी दूरी तय कर चुका होगा?

- Ans 1. 200 m
 2. 180 m
 3. 150 m
 4. 250 m

Question ID : 26433083048

Status : Not Answered

Chosen Option : --

Q.16 A number when divided by 7 leaves remainder of 4. If the square of the same number is divided by 7, then what is the remainder?

- Ans ✗ 1. 3
 ✗ 2. 1
 ✗ 3. 4
 ✓ 4. 2

Question ID : 26433063767

Status : Answered

Chosen Option : 4

Q.17 The given table shows the number of new employees joined in different categories of employees in an organisation and also the number of employees from these categories who left the organisation every year since the foundation of the organisation in 2015. Study the table and answer the question that follows.

Year	Business Analysts		Accountants		Sales Representatives		Peons	
	Joined	Left	Joined	Left	Joined	Left	Joined	Left
2015	80	0	35	0	50	0	73	0
2016	63	21	26	16	46	20	34	23
2017	78	28	15	5	38	15	48	29
2018	42	39	20	38	34	0	14	12
2019	67	44	14	24	22	30	21	30

During the years given, what is the difference between the total number of Business Analysts who joined the organisation and the total number of Sales Representatives who joined the organisation?

- Ans ✗ 1. 141
 ✓ 2. 140
 ✗ 3. 142
 ✗ 4. 143

Question ID : 26433085490

Status : Answered

Chosen Option : 2

Q.18 If $\cot B = 9$, then what will be the value of $\sec^2 B$?

- Ans ✗ 1. 98/81
 ✗ 2. 92/81
 ✗ 3. 42/81
 ✓ 4. 82/81

Question ID : 264330105906

Status : Answered

Chosen Option : 4

Q.19 मान लीजिए O एक वृत्त का केंद्र है और P वृत्त के बाहर एक बिंदु है। यदि PAB, वृत्त का एक छेदक है जो वृत्त को A और B पर काटता है और PT, P से खींची गई स्पशरखा है, तो PT की लंबाई ज्ञात कीजिए।
 $PA = 3 \text{ cm}$ और $AB = 9 \text{ cm}$ है।

Ans 1. $3\sqrt{3} \text{ cm}$

2. $4\sqrt{3} \text{ cm}$

3. 6 cm

4. 8 cm

Question ID : 26433075218

Status : Answered

Chosen Option : 3

Q.20 The value of 95×105 is:

Ans 1. 9981

2. 9935

3. 9965

4. 9975

Question ID : 26433079802

Status : Answered

Chosen Option : 4

Q.21 The LCM of two numbers is 120 and the numbers are in the ratio 3 : 8. The sum of the numbers will be:

Ans 1. 48

2. 55

3. 45

4. 60

Question ID : 26433075092

Status : Answered

Chosen Option : 2

Q.22 Simplify the following:

$$\frac{\cos x - \sqrt{3}\sin x}{2}$$

Ans 1. $\cos\left(\frac{\pi}{3} - x\right)$

2. $\sin\left(\frac{\pi}{3} + x\right)$

3. $\cos\left(\frac{\pi}{3} + x\right)$

4. $\sin\left(\frac{\pi}{3} - x\right)$

Question ID : 26433061938

Status : Answered

Chosen Option : 1

Q.23 Find the value of the following expression.

$$12^3 + (-8)^3 + (-4)^3$$

Ans 1. 952

2. 1152

3. 1052

4. 852

Question ID : 26433079814

Status : Answered

Chosen Option : 2

Q.24 Suppose ΔABC be a right-angled triangle where $\angle A = 90^\circ$ and $AD \perp BC$. If area (ΔABC) = 80 cm^2 and $BC = 16 \text{ cm}$, then the length of AD is:

Ans 1. 10 cm

2. 24 cm

3. 18 cm

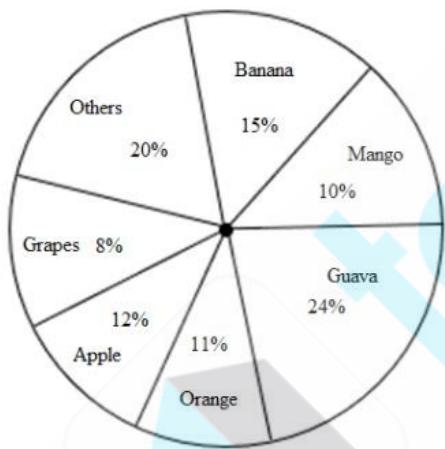
4. 12 cm

Question ID : 26433075400

Status : Answered

Chosen Option : 1

Q.25 The following pie chart represents the percentage-wise weight distribution of different fruits out of 2500 kg of fruits at one fruit shop.



What is the difference between the weights of banana and orange at the fruit shop?

Ans 1. 125 kg

2. 100 kg

3. 50 kg

4. 75 kg

Question ID : 26433080248

Status : Answered

Chosen Option : 2

Section : English Comprehension

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

- A.Shalini was scrolling down the phone screen while waiting for her friend.
B.Her friend brought a bouquet for Shalini from the market place.
C.When her friend arrived, they went to the market place.
D.The market place was thronging with people.

Ans 1. BACD

2. DACB

3. ABCD

4. ACDB

Question ID : 26433072376

Status : Answered

Chosen Option : 4

Q.2 Select the most appropriate meaning of the given idiom.

Cut a poor figure

Ans 1. In a poor state

2. To put a good impression

3. To put a bad impression

4. Bad physical form

Question ID : 26433072220

Status : Answered

Chosen Option : 3

Q.3 Rearrange the parts of the sentence in correct order.

A 2007–2009 study

P. explored forward thinking techniques

Q. to synchronise time on board deep

R. space probes for accurate navigation, in

S. particular looking into low-cost options

Ans 1. RSPQ

2. PSRQ

3. SPRQ

4. PQRS

Question ID : 264330104650

Status : Answered

Chosen Option : 1

Q.4 Select the correct passive form of the given sentence.

The indentured labourers fix the roads.

Ans 1. The roads was fixed by indentured labourers.

2. The roads were fixed by indentured labourers.

3. The roads are fixed by indentured labourers.

4. The roads were being fixed by indentured labourers.

Question ID : 264330104555

Status : Answered

Chosen Option : 2

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 $\cos^2 35^\circ + \cos 55^\circ \cdot \sin 35^\circ + \frac{\tan 34^\circ}{\cot 56^\circ} = \text{_____}$.

- 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 become 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. $\sqrt[3]{3} : \sqrt[3]{2}$

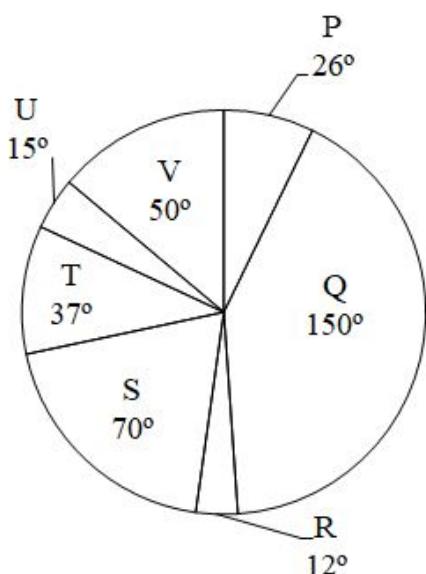
4. $\sqrt[4]{3} : \sqrt[4]{2}$

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 $\sqrt{\frac{1 + \cos \theta}{1 - \cos \theta}} + \sqrt{\frac{1 - \cos \theta}{1 + \cos \theta}} = \text{_____}$

- 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 ΔABC and ΔDEF are congruent respectively. If $AB = 6 = DE$, $BC = 8 = EF$ and $m \angle B = 30^\circ$, then $m \angle D + m \angle C = \underline{\hspace{2cm}}$.

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

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

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