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Roll Number	
Venue Name	iON Digital Zone iDZ Jaulan Kalan
Exam Date	16/11/2020
Exam Time	10:00 AM - 12:00 PM
Subject	CGLE Tier II Paper I Quantitative abilities

Section: Quantitative abilities

Q.1 If $(x+y)^3 + 8(x-y)^3 = (3x + Ay)(3x^2 + Bxy + Cy^2)$, then the value of A+B+C is:



X 2. 4

X 3. 2

X 4. 3

Question ID: 6549781776

Chosen Option: 1

Status: Answered

If $\cos(2\theta+54^\circ) = \sin\theta$, $0^\circ < (2\theta+54^\circ) < 90^\circ$, then what is the value of $\frac{1}{\tan 5\theta + \csc \frac{5\theta}{2}}$? Q.2

X 1. 3√2

√ 2. 2 - √3

× 3. 2√3

 \times 4. 2 + $\sqrt{3}$

Question ID: 6549781817

Status: Answered

Chosen Option: 2

Q.3 The circumference of the base of a right circular cone is 44 cm and its height is 24 cm. The curved surface area (in cm2) of the cone is:

(Take $\pi = \frac{22}{7}$)

X 1. 528

X 2. 572

3. 550

X 4. 440

Question ID: 6549781799

Status: Answered

THE

The value of $(tan^2A + cot^2A - 2) - sec^2A cosec^2A$ is:

Ans

- **√**1. −4
- \times 2. -1
- **X** 3. 1
- **X** 4. 4

Question ID : 6549781810 Status : Answered Chosen Option : 1

Q.5 The average of twenty-five numbers is 54. The average of the first 13 numbers and that of the last 13 numbers is 52.8 and 62.2, respectively. If the 13th number is excluded, then what is the average of the remaining numbers (correct to one decimal place)?

Ans

- X 1. 50.6
- X 2. 49.8
- X 3. 51.2
- **4** 50.2

Question ID : 6549781774 Status : Answered Chosen Option : 4

 $\frac{Q.6}{\cos\theta(1+\cos\theta)} + \frac{1+\cos\theta}{\cos\theta} = 2$

Ans

- X 1. cosecθ
- × 2. secθ
- × 3. 2cosθ
- √ 4. 2secθ

Question ID: 6549781812 Status: Answered Chosen Option: 3

Q.7 In △ABC, D is a point on side BC such that ∠ADC = 2∠BAD. If ∠A = 80° and ∠C = 38°, then what is the measure of ∠ADB?

Ans

- X 1. 58°
- X 2. 62°
- X 3. 52 °
- √ 4. 56°

Question ID : **6549781788**Status : **Answered**Chosen Option : **4**

Q.8 To do a certain work, the ratio of the efficiencies of A and B is 7 : 5. Working together, they can complete the same work in $17\frac{1}{2}$ days. A alone will complete 60% of the same work in:

Ans

- 1. 18 days
- × 2. 15 days
- X 3. 16 days
- X 4. 21 days

Question ID : 6549781773 Status : Answered Chosen Option : 1

Q.9 In what ratio should sugar costing ₹40 per kg be mixed with sugar costing ₹48 per kg, so as to earn a profit of 20% by selling the mixture at ₹54 per kg?

Ans

- 1.3:5
- X 2. 4:7
- X 3. 5:8
- X 4. 2:3

Question ID : 6549781764 Status : Answered

Chosen Option : 1

Q.10 From the top of a hill 240 m high, the angles of depression of the top and bottom of a pole are 30° and 60°, respectively.

The difference (in m) between the height of the pole and its distance from the hill is:

Ans

- X 1. 120(2-√3)
- × 2. 120(√3-1)
- **×** 3. 80(√3-1)
- **√** 4. 80(2-√3)

Question ID : 6549781819 Status : Answered Chosen Option : 4

If $\sqrt{11-3\sqrt{8}} = a + b\sqrt{2}$, then what is the value of (2a+3b)?

Ans

- X 1. 7
- X 2. 9
- **3**. 3
- X 4. 5

Question ID : 6549781740 Status : Answered Chosen Option : 3

Download More Papers From www.GovtJobsAlert.In Q.12 The number of students in section A and section B of a class are 40 and 52, respectively. The average score in mathematics of all the students is 75. If the average score of the students in A is 20% more than that of students in B, then what is the average score of students in B? Ans X 1. 71 X 2. 65 **3**. 69 X 4. 63 Question ID: 6549781775 Status: Answered Chosen Option: 3 A dealer marks his goods at 40% above the cost price. He sells 60% of the goods at the marked price giving 10% discount and the rest by giving 50% discount on the marked price. What is his overall profit/loss per cent? Ans X 1. Loss 2.8% X 2. Profit 2.8% 3. Profit 3.6% X 4. Loss 3.6% Question ID: 6549781759 Status: Answered Chosen Option: 3 Q.14 Study the pie-chart and answer the options:-Break up (degree wise) of students in terms of specialization in different areas (A,B,C,D & E) in an MBA program. Total Number of Students = 2100 The total number of students specialising in \boldsymbol{A} and \boldsymbol{B} exceeds the total number of students specialising in \boldsymbol{C} and \boldsymbol{D} by x, which lies between: √ 1. 60 and 65 X 2. 55 and 60 X 3. 50 and 55 X 4. 65 and 70 Question ID: 6549781824

Status: Answered Chosen Option: 1

Q.15 The circumference of the base of a cylindrical vessel is 158.4 cm and its height is 1 m. How many litres of water can it hold (correct to one decimal place)?

(Take $\pi = \frac{22}{7}$)

Δns

- X 1. 186.4
- × 2. 200.8
- X 3. 198.2
- 4. 199.6

Question ID : 6549781807 Status : Answered Chosen Option : 3

Q.16 A hemispherical tank full of water is emptied by a pipe at the rate of 7.7 litres per second. How much time (in hours)

will it take to empty $\frac{2}{3}$ part of the tank, if the internal radius of the tank is 10.5 m?

Ans

- \times 1. $\frac{185}{3}$
- \times 2. $\frac{185}{6}$
- $\sqrt{3}$. $\frac{175}{3}$
- \times 4. $\frac{175}{2}$

Question ID : 6549781803 Status : Answered

Chosen Option: 3

Q.17 A cylindrical roller made of iron is 1.2 m long. Its internal radius is 24 cm and thickness of the iron sheet used in making the roller is 15 cm. What is the mass (in kg) of the roller, if 1 cm³ of iron has 8 g mass?

Ans

- × 1. 846.72 π
- × 2. 845.75 π
- × 3. 892.8 π
- 4. 907.2 π

Question ID : **6549781804** Status : **Answered**

Q.18 The rate of interest for the first 2 years is 6% p.a., for the next 3 years is 10% p.a., and for the period beyond 5 years is 12% p.a. If a person gets ₹12,771 as simple interest after 7 years, then how much money did he invest?

Ans

X 1. ₹20,000

√ 2. ₹19,350

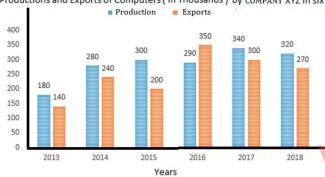
X 3. ₹19,450

X 4. ₹19,300

Question ID : 6549781751 Status : Answered Chosen Option : 3

Q.19 Study the given graph and answer the question that follows.

Productions and Exports of Computers (In Thousands) by COMPANY XYZ in six Years



By what per cent were the total exports of computers, by the company, in 2013, 2014 and 2018 less than the total production of computers in 2015 to 2017 (correct to one decimal place)?

Ans

X 1. 28.8

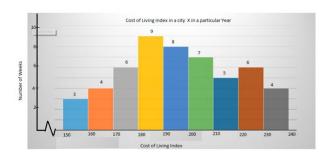
X 2. 32.6

X 3. 43.1

4. 30.1

Question ID : 6549781823 Status : Answered

Q.20 Study the given graph and answer the question that follows.



The number of weeks, in which the cost of living index was 160 or more but less than 190, is approximately what per cent more than the number of weeks in which the cost of living index was 200 or more but less than 220 (correct to one decimal place)?

Ans



X 2. 36.8

X 3. 60.6

X 4. 44.4



Question ID : 6549781820 Status : Answered

Chosen Option: 1

Q.21

The value of $\frac{7+3\sqrt{5}}{3+\sqrt{5}} - \frac{7-3\sqrt{5}}{3-\sqrt{5}}$ lies between:

Ans

X 1. 3 and 3.5

✓ 2. 2 and 2.5

X 3. 1.5 and 2

X 4. 2.5 and 3

Question ID : 6549781739 Status : Answered

Chosen Option : 2

Q.22 A and B enter into a partnership with capital in the ratio 5: 6. After 4 months, A withdraws $\frac{1}{5}$ of his capital, while B

increases his capital by 33 ½%. What is the share (in ₹ lakhs) of B in the annual profit of ₹6.3 lakhs?

Ans

X 1. 2.34

2 3.96

X 3. 2.61

X 4. 3.69

Question ID : 6549781763 Status : Answered

Q.23 In $\triangle ABC$, right angled at B, if $\tan A = \frac{1}{2}$, then the value of $\frac{\sin A (\cos C + \cos A)}{\cos C (\sin C - \sin A)}$ is:

Ans

- X 1. 2
- **X** 2.
- **3**. 3
- \times 4. $2\sqrt{5}$

Question ID: 6549781815 Status: Answered Chosen Option: 3

Q.24 When positive numbers a, b and c are divided by 13, the remainders are 9, 7 and 10, respectively. What will be the remainder when (a+2b+5c) is divided by 13?

Ans

- **1**. 8
- X 2. 9
- **X** 3. 5
- X 4. 10

Question ID : 6549781727 Status : Answered Chosen Option : 1

Q.25 Study the pie-chart and answer the options:-

Break up (degree wise) of students in terms of specialization in different areas (A,B,C,D & E) in an MBA program.



Total Number of Students = 2100

If the ratio of male and female students specialising in B is 4:3 and that of male and female students specialising in D is 8:7, then the number of female students in D is what per cent less than the number of male students in B (correct to one decimal place)?

Ans

- **1.** 41.7
- X 2. 40.2
- X 3. 55.8
- X 4. 71.4

Question ID: 6549781826 Status: Answered Chosen Option: 3

Q.26	A train travelling at 36 km/h crosses a pole in 25 seconds. How much time (in seconds) will it take to cross a bridge	
Ans	350 m long?	
4115	X 1. 72	
	2. 48	
	√ 3. 60	
	× 4. 56	
		Question ID : 6549781767
		Status : Answered
		Chosen Option : 3
.27	25% of (50% of 30% of 150) 40% of 2250 is equal	■ 500 M
	40% of 2250 Is equal	to:
Ans	√ 1. 0.625%	
	× 2. 0.225%	
	× 3. 0.825%	
	× 4. 0.25%	
		Question ID : 6549781743
		Status : Answered Chosen Option : 1
		Gliodell option. I
.28	What price should Neeraj mark on a shirt that costs ₹840, so as to e on the marked price?	earn a profit of 18% after allowing a discount of 16%
Ans	× 1. ₹1,200	
	√ 2. ₹1,180	
	X 3. ₹1,240	
	× 4. ₹1,160	
		Question ID : 6549781761
		Status : Answered Chosen Option : 2
		·

Q.29

If $x - \frac{1}{x} = 5$, $x \neq 0$, then what is the value of $\frac{x^6 + 3x^3 - 1}{x^6 - 8x^3 - 1}$?

Ans

- \times 1. $\frac{3}{8}$
- **√** 2. $\frac{13}{12}$
- \times 3. $\frac{4}{9}$
- \times 4. $\frac{11}{13}$

Question ID : 6549781780 Status : Answered Chosen Option : 2

Q.30 Alloy A contains metals x and y only in the ratio 5:2 and alloy B contains these metals in the ratio 3:4. Alloy C is prepared by mixing A and B in the ratio 4:5. The percentage of x in alloy C is:

Ans

- X 1. 45
- \checkmark 2. 55 $\frac{5}{6}$
- \times 3. $44\frac{4}{9}$
- X 4. 56

Question ID: 6549781765 Status: Answered Chosen Option: 2

Q.31 The value of $\frac{5\cos^2 60^\circ + 4\sec^2 30^\circ - \tan^2 45^\circ}{\tan^2 60^\circ - \sin^2 30^\circ - \cos^2 45^\circ}$ is:

Ans

- $\sqrt{1.} \frac{67}{27}$
- × 2. $\frac{22}{9}$
- **×** 3. $\frac{67}{24}$
- \times 4. $\frac{19}{9}$

Question ID : 6549781816 Status : Answered Chosen Option : 1

Q.32 If $x = \sec 57^\circ$, then

 $\cot^2 33^\circ + \sin^2 57^\circ + \sin^2 33^\circ + \csc^2 57^\circ \cos^2 33^\circ + \sec^2 33^\circ \sin^2 57^\circ$ is equal to:

Ans

- \times 1. $2x^2 + 1$
- \times 2. $\frac{1}{x^2+1}$
- \times 3. $\chi^2 + 1$
- $\sqrt{4.} x^2 + 2$

Question ID : 6549781818 Status : Answered Chosen Option : 4

Q.33 Reshma buys two articles A and B for ₹1,734. She sells A at a loss of 16% and sells B at a gain of 20%. The selling price of both the articles is the same. If A is sold for ₹1,147.50, then the gain per cent on A is:

Ans

- 1. 12.5
- X 2. 12
- X 3. 10.5
- X 4. 10

Question ID : 6549781758 Status : Answered

Chosen Option: 1

Q.34 In △PQR, PS is the internal bisector of ∠P meeting QR at S, PQ = 16 cm, PR = 22.4 cm and QR = 9.6 cm. The length of SR (in cm) is:

Ans

- X 1. 4
- X 2. 4.4
- X 3. 6
- 4. 5.6

Question ID : 6549781787 Status : Answered

Chosen Option: 4

Q.35 A shopkeeper bought 20 kg of rice at ₹55 per kg, 25 kg of rice at ₹50 per kg, and 35 kg of rice at ₹60 per kg. He spent a sum of ₹150 on transportation. He mixed all the three types of rice and sold all the stock at ₹62.56 per kg. His profit per cent in the entire transaction is:

Ans

- 1. 8.8
- X 2. 12.5
- X 3. 10.5
- X 4. 9.2

Question ID : 6549781757 Status : Answered

If cosec $\theta = b/a$, then $\frac{\sqrt{3}\cot\theta + 1}{\tan\theta + \sqrt{3}}$ is equal to:

- \times 1. $\frac{\sqrt{b^2-a^2}}{b}$
- \checkmark 2. $\frac{\sqrt{b^2 a^2}}{a}$
- \times 3. $\frac{\sqrt{a^2+b^2}}{a}$
- \times 4. $\frac{\sqrt{a^2+b^2}}{b}$

Question ID: 6549781814 Status: Answered Chosen Option: 2

When x is subtracted from each of 19, 28, 55 and 91, the numbers so obtained in this order, are in proportion. What is the mean proportional between (x + 9) and x^2 ?

Ans

- X 1. 27
- X 2. 32
- X 4. 24

Question ID: 6549781748 Status: Answered Chosen Option: 3

Q.38 A solid metallic cuboid of dimensions 18 cm × 36 cm × 72 cm is melted and recast into 8 cubes of the same volume. What is the ratio of the total surface area of the cuboid to the sum of the lateral surface areas of all 8 cubes?

Ans

- 2. 7:8
- X 3. 7:12
- X 4. 2:3

Question ID: 6549781808 Status: Answered Chosen Option: 2

Q.39	If the radius of a sphere is increased by 2.5 decimetre (dm), then its surface area increases by $110 \ dm^2$. Wha	t is th
	volume (in dm ³) of the sphere?	

(Take $\pi = \frac{22}{7}$)

Ans

- \times 1. $\frac{13}{21}$
- \times 2. $\frac{3}{7}$
- \times 3. $\frac{4}{7}$
- \checkmark 4. $\frac{11}{21}$

Question ID : 6549781801 Status : Answered Chosen Option : 4

Q.40 Study the pie-chart and answer the options:-

Break up (degree wise) of students in terms of specialization in different areas (A,B,C,D & E) in an MBA program.



■A ■B ■C ■D ■E

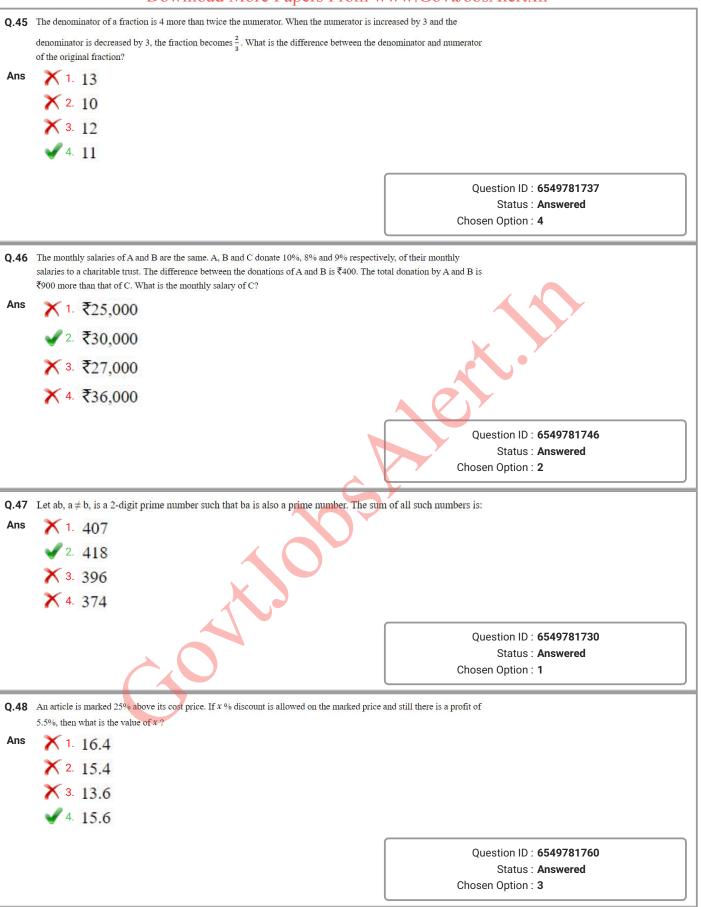
The number of students specialising in E is what per cent more than that of students specialising in C?

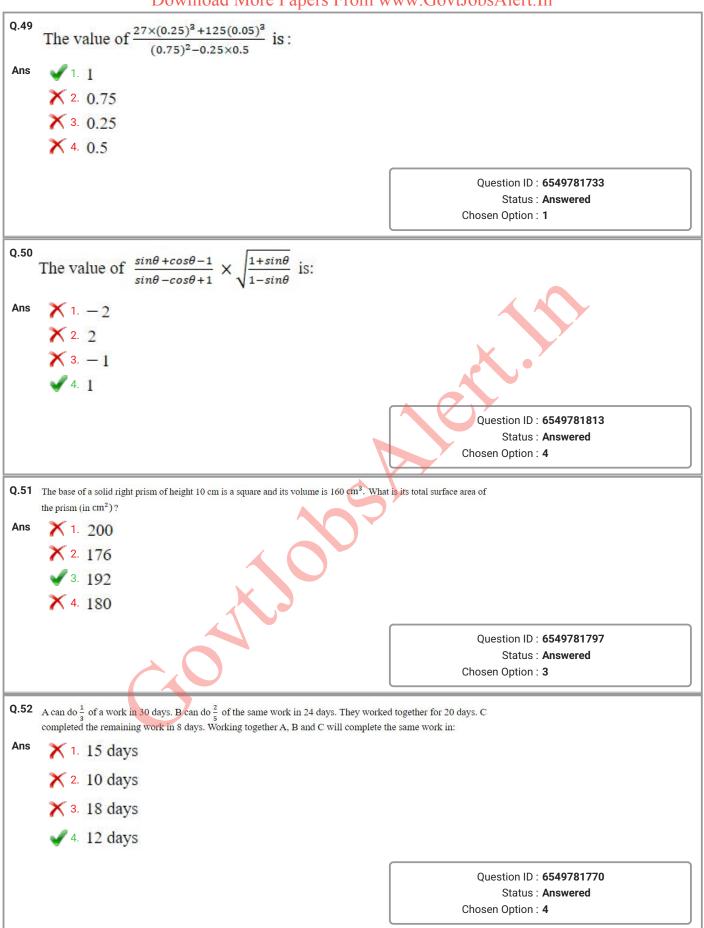
Ans

- X 1. 25.9
- × 2. 30.4
- X 3. 32
- **4**. 35

Question ID : 6549781825 Status : Answered

	Bowinsaa waa a apers man		
Q.41	A sum of ₹10,500 amounts to ₹13,650 in 2 years at a certain rate per cent per annum simple interest. The same sum will amount to what in 1 year at the same rate, if the interest is compounded half yearly (nearest to ₹1)?		
Ans			
	√ 2. ₹12,134		
	X 3. ₹12,143		
	× 4. ₹12,314		
		0 11 15 4546764759	
		Question ID : 6549781752 Status : Answered	
		Chosen Option : 2	
Q.42	42 A boat can go 5 km upstream and 7 ½ km downstream in 45 minutes. It can also go 5 km downstream and 2.5 km upstream in 25 minutes. How much time (in minutes) will it take to go 6 km upstream?		
Ans	× 1. 30		
	√ 2. 36		
	X 3. 24	×	
	× 4. 32		
		Question ID : 6549781769	
		Status : Answered Chosen Option : 2	
		Glosen Option . 2	
Q.43	If the five-digit number $235xy$ is divisible by 3, 7 and 11, then what is the	e value of $(3x-4y)$?	
Ans	√ 1. 10		
	× 2. 8		
	X 3. 9		
	X 4. 5		
		Question ID : 6549781729	
		Status : Answered Chosen Option : 3	
		Shootin space 5	
Q.44	Two men and 7 women can complete a work in 28 days, whereas 6 men and 16 women days. In how many days will 5 men and 4 women, working together, complete the same	FOR CONTRACTOR AND CONTRACTOR CON	
Ans	X 1. 20		
	× 2. 18		
	× 3. 14		
	√ 4. 22		
		Question ID : 6549781772	
		Status : Answered	
		Chosen Option : 4	





Q.53

The value of $4 \div 12$ of $[3 \div 4$ of $\{(4-2) \times 6 \div 2\}] - 2 \times 6 \div 8 + 3$ is:

Ans

- √ 1. 4 ¹/₆
- \times 2. $3\frac{1}{3}$
- \times 3. $2\frac{1}{3}$
- \times 4. $7\frac{1}{6}$

Question ID : **6549781728** Status : **Answered**

Chosen Option: 1

Q.54 What is the area (in sq. units) of the triangle formed by the graphs of the equations 2x + 5y - 12 = 0, x + y = 3 and y = 0.2

Ans

- **/** 1. 3
- **X** 2. 2
- **X** 3. 5
- X 4. 6

Question ID: 6549781782 Status: Answered

Chosen Option : ${\bf 1}$

Q.55 A metallic solid spherical ball of radius 3 cm is melted and recast into three spherical balls. The radii of two of these balls are 2 cm and 1.5 cm. What is the surface area (in cm²) of the third ball?

Ans

- × 1. 50 π
- \times 2. $\frac{25}{4}\pi$
- **√** 3. 25 π
- \times 4. $\frac{25}{2}\pi$

Question ID: 6549781802

Status : **Answered**

Q.56 In ΔABC, D and E are points on the sides AB and AC, respectively, such that DE || BC. If AD = 5 cm, DB = 9 cm, AE = 4 cm and BC = 15.4 cm, then the sum of the lengths of DE and EC (in cm) is:

Ans

X 1. 11.6

× 2. 10.8

X 3. 13.4

√ 4. 12.7

Question ID : 6549781789 Status : Answered Chosen Option : 4

Q.57 The base of a right pyramid is an equilateral triangle with side 8 cm, and its height is $30\sqrt{3}$ cm. The volume (in cm³) of the pyramid is:

Ans

- X 1. 240√3
- × 2. 360√3
- **3**. 480
- X 4. 360

Question ID: 6549781798
Status: Answered

Chosen Option: 3

Q.58

If
$$a:b:c=\frac{1}{4}:\frac{1}{3}:\frac{1}{2}$$
, then $\frac{a}{b}:\frac{b}{c}:\frac{c}{a}=?$

Ans

- X 1. 12:9:8
- √ 2. 9:8:24
- X 3. 8:9:24
- X 4. 9:12:8

Question ID : 6549781747 Status : Answered Chosen Option : 2

Q.59 A loan is to be returned in two equal yearly instalments. If the rate of interest is 10% p.a., compounded annually, and each instalment is ₹5,808, then the total interest charged in this scheme is:

Ans

- X 1. ₹1,563
- √ 2. ₹1,536
- × 3. ₹1,632
- X 4. ₹1,602

Question ID : 6549781754 Status : Answered Chosen Option : 2

Q.60 The value of $3\frac{1}{5} \div 4\frac{1}{2}$ of $5\frac{1}{3} + \frac{1}{8} \div \frac{1}{2}$ of $\frac{1}{4} - \frac{1}{4}(\frac{1}{2} \div \frac{1}{8} \times \frac{1}{4})$ is:

Ans

- × 1. $\frac{13}{15}$
- × 2. $\frac{7}{8}$
- \times 3. $\frac{3}{4}$
- \checkmark 4. $\frac{53}{60}$

Question ID: 6549781734

Status: Answered

Chosen Option: 2

Q.61 A sold an item to B at 20% gain, B sold it to C at 8% gain. C sold it to D at 25% loss. If the difference between the profits of A and B is ₹260, then D bought it for:

Ans

- X 1. ₹2,268
- √ 2. ₹2,430
- X 3. ₹2,200
- X 4. ₹2,480

Question ID: 6549781756

Status: Answered

Chosen Option: 4

Q.62 Renu saves 20% of her income. If her expenditure increases by 20% and income increases by 29%, then her savings increase by:

Ans

- X 1. 55%
- **√** 2. 65%
- X 3. 54%
- X 4. 60%

Question ID : 6549781745 Status : Answered

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Q.63	The compound interest on a sum of ₹20,000 at 15% p.a. for $2\frac{2}{3}$ years, interest	compounded yearly, is:
Ans	X 1. ₹9,098	
	× 2. ₹8,896	
	X 3. ₹9,000	
	√ 4. ₹9,095	
		Question ID : 6549781753
		Status : Answered
		Chosen Option : 2
Q.64	From a solid cylindrical wooden block of height 18 cm and radius 7.5 cm, a conical cavity of radius is taken out. What is total surface area (in cm ²) of the remaining solid?	f the same height and same
Ans	Χ 1. 270 π	
	× 2. 416.25 π	
	× 3. 326.25 π	
	√ 4. 472.5 π	
		Question ID : 6549781805
		Status : Answered Chosen Option : 4
		oneschi option: 4
	The ratio of the radii of two cones is 5:6 and their volumes are in the ratio 8:9. The	e ratio of their heights is:
Ans	✓ 1. 32 ; 25	
	X 2. 25 : 32	
	X 3. 27:20 X 4. 20:27	
	A 4 20:27	
		Question ID : 6549781800
		Status : Answered Chosen Option : 1
0.66	Let x be the least number which when subtracted from 10424 gives a perfect square number	or What is the least number
Q.00	by which x should be multiplied to get a perfect square?	
Ans	X 1. 3	
	X 2. 2	
	X 3. 6	
	4. 5	
		Question ID : 6549781738
		Status : Answered Chosen Option : 4

Q.67 A certain sum is divided between A, B, C and D such that the ratio of the shares of A and B is 1:3, that of B and C is 2:5, and that of C and D is 2:3. If the difference between the shares of A and C is ₹3,510, then the share of D is:

Ans

- X 1. ₹4,320
- × 2. ₹3,240
- **√** 3. ₹6,075
- X 4. ₹4,050

Question ID : 6549781749 Status : Answered

Chosen Option: 3

Q.68

If
$$\frac{1}{x + \frac{1}{y + \frac{1}{z + 1}}} = \frac{29}{79}$$
, where x, y and z are natural numbers, then the value of $(2x + 3y - z)$ is:

Ans

- X 1. 0
- X 2. 4
- **X** 3.
- **4**. 2

Question ID : **6549781736** Status : **Answered**

Chosen Option: 2

Q.69 In a circle, O is the centre of the circle. Chords AB and CD intersect at P. If ∠AOD = 32° and ∠COB = 26°, then the measure of ∠APD lies between:

Ans

- X 1. 18° and 22°
- ✓ 2. 26° and 30°
- X 3. 30° and 34°
- X 4. 22° and 26°

Question ID : 6549781794

Status : Answered

Chosen Option : 2

Q.70 If a regular polygon has 16 sides, then what is the measure (in degrees) of its each interior angle?

Ans

- X 1. 154
- \checkmark 2. 157 $\frac{1}{2}$
- X 3. 155
- \times 4. 159 $\frac{1}{2}$

Question ID : 6549781796 Status : Answered

Q.71

 $\frac{\sec A (\sec A + \tan A)(1 - \sin A)}{(\csc^2 A - 1)\sin^2 A}$ is equal to:

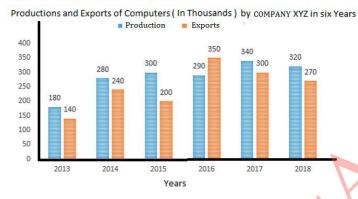
Ans

- X 1. cotA
- X 2. cosA
- ✓ 3. sec²A
- \times 4. $\cos^2 A$

Question ID : 6549781809 Status : Answered

Chosen Option: 3

Q.72 Study the given graph and answer the question that follows.



The total production of computers in 2013, 2015 and 2018 is x% of the total exports of computers by the company during the six years. The value of x is:

Ans

- \times 1. 46 $\frac{1}{3}$
- \times 2. $52\frac{1}{3}$
- \checkmark 3. $53\frac{1}{3}$
- \times 4. 49 $\frac{2}{3}$

Question ID : 6549781822

Status : **Answered**

Download More Papers From www.GovtJobsAlert.In **Q.73** Let D and E be two points on the side BC of \triangle ABC such that AD = AE and \angle BAD = \angle EAC. If AB = (3x + 1) cm, BD = 9 cm, AC = 34 cm and EC = (y + 1) cm, then the value of (x + y) is: Ans 1. 19 X 2. 16 X 3. 17 X 4. 20 Question ID: 6549781791 Status: Answered Chosen Option: 3 Q.74 The value of $0.\overline{57} - 0.4\overline{32} + 0.3\overline{5}$ is: Ans √ 1. 0.4 98 × 2. 0.4 94 X 3. 0. 498 X 4. 0. 494 Question ID: 6549781732 Status: Answered Chosen Option: 1 Q.75 In $\triangle PQR$, $\angle P = 90^{\circ}$. S and T are the mid points of sides PR and PQ, respectively. What is the value of $RQ^2/(QS^2 + RT^2)$? Ans

Question ID : **6549781783**Status : **Answered**Chosen Option : **2**

Q.76	In a circle with centre O, AB is the diameter. P and Q are two points on the circle on the same side of the diameter AB. AQ and BP intersect at C. If ∠POQ = 54°, then the measure of ∠PCA is:	
Ans	✓ 1. 63 °	
	X 2. 56°	
	X 3. 54 °	
	× 4. 72 °	
	7-12	
		Question ID : 6549781793
		Status : Answered Chosen Option : 1
Q.77	A, B and C invested capital in the ratio $5:7:4$, the timing of their investments being in profits are distributed in the ratio $45:42:28$, then $x:y:z=?$	the ratio $x:y:z$. If their
Ans	✓ 1. 9:6:7	
	× 2. 7:9:4	
	X 3. 9:4:7	
	X 4. 6:7:9	X • Y
	Contraction (Contraction)	
		Question ID : 6549781762 Status : Answered
		Chosen Option : 1
0.78	In \triangle ABC, D and E are points on the sides AB and AC, respectively, such that DE \parallel	BC and DF: BC = $6:7$
	(Area of \triangle ADE): (Area of trapezium BCED) = ?	
Ans	X 1. 49:13	
	× 2. 13 : 36	
	× 3. 13:49	
	✓ 4. 36 : 13	
		Question ID : 6549781790
		Status : Answered
		Chosen Option : 4
Q.79	The ratio of the monthly incomes of X and Y is $5:4$ and that of their monthly expenditures is equal to the expenditure of X , then what is the ratio of the savings of X and Y ?	9:7. If the income of Y is
Ans	1. 9:8	
	X 2. 6:7	
	X 3. 8:9	
	X 4. 7:6	
	× 1000000	
		Question ID : 6549781750 Status : Answered
		Chosen Option : 1

Q.80 Let *x* be the greatest number which when divides 955, 1027, 1075, the remainder in each case is the same. Which of the following is NOT a factor of *x*?

Ans

- X 1. 4
- **2**. 16
- X 3. 8
- X 4. 6

Question ID : 6549781731 Status : Answered Chosen Option : 3

Q.81 If $2x^2 - 7x + 5 = 0$, then what is the value of $x^2 + \frac{25}{4x^2}$?

Ans

- \times 1. $5\frac{1}{2}$
- √ 2. 7 ¹/₄
- \times 3. 9 $\frac{1}{2}$
- \times 4. 9 $\frac{3}{4}$

Question ID : 6549781778 Status : Answered Chosen Option : 2

Q.82 Raju ate $\frac{3}{8}$ part of a pizza and Adam ate $\frac{3}{10}$ part of the remaining pizza. Then Renu ate $\frac{4}{7}$ part of the pizza that was left. What fraction of the pizza is still left?

Ans

- × 1. $\frac{5}{12}$
- \times 2. $\frac{1}{4}$
- \times 3. $\frac{1}{8}$
- **√** 4. $\frac{3}{16}$

Question ID : **6549781735** Status : **Answered**

Q.83 A secant PAB is drawn from an external point P to the circle with centre O, intersecting it at A and B. If OP = 17 cm, PA = 12 cm and PB = 22.5 cm, then the radius of the circle is:

Ans

- \times 1. 2 $\sqrt{3}$ cm
- ✓ 2. √19 cm
- \times 3. $\sqrt{17}$ cm
- \times 4. 3 $\sqrt{2}$ cm

Question ID: 6549781792

Status : Answered

Chosen Option: 2

Q.84 Pipes A and B can fill a tank in 12 minutes and 15 minutes, respectively. The tank when full can be emptied by pipe C in x minutes. When all the three pipes are opened simultaneously, the tank is full in 10 minutes. The value of x is:

Ans

- X 1. 18
- X 2. 15
- **3**. 20
- X 4. 24

Question ID : **6549781771** Status : **Answered**

Chosen Option: 3

Q.85 In a quadrilateral ABCD, E is a point in the interior of the quadrilateral such that DE and CE are the bisectors of \angle D and \angle C, respectively. If \angle B = 82° and \angle DEC = 80°, then \angle A = ?

Ans

- X 1. 75°
- X 2. 81 °
- X 3. 84°
- **√** 4. 78 °

Question ID: 6549781795

Status: Answered

Chosen Option: 4

Q.86 A drink of chocolate and milk contains 8% pure chocolate by volume. If 10 litres of pure milk are added to 50 litres of this drink, the percentage of chocolate in the new drink is:

Ans

- $\sqrt{1.6^{\frac{2}{3}}}$
- \times 2. $5\frac{2}{3}$
- \times 3. $5\frac{1}{3}$
- \times 4. $6\frac{1}{3}$

Question ID: 6549781744

Status : Answered

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Q.87	In $\triangle ABC$, M and N are the points on side BC such that AM \perp BC, AN is the bisector of	$\angle A$, and M lies between B and
Ans	N. If $\angle B = 68^{\circ}$, and $\angle C = 26^{\circ}$, then the measure of $\angle MAN$ is:	
	NAME OF THE PARTY	
	× 2. 28°	
	X 3. 24 °	
	X 4. 22°	
		Question ID : 6549781785
		Status : Answered
		Chosen Option : 1
Q.88	A and B start moving from places X and Y and Y to X, respectively, at the same time of each other, A and B take $5\frac{4}{9}$ hours and 9 hours, respectively, to reach their respective d	
	33 km/h, then the speed (in km/h) of B is:	estinations. If the speed of A1s
Ans	X 1. 22	
	× 2. 2	
	\checkmark 3. $25\frac{2}{3}$	
	\times 4. 24 $\frac{1}{3}$	
		Question ID : 6549781768 Status : Answered
		Chosen Option : 3
0.00	Value David Company of the Development of the Devel	A Caristana LISAD
Q.89	In $\triangle ABC$, D and E are the midpoints of sides BC and AC, respectively. AD and BE inter 18 cm and BE = 12 cm, then the length of DC (in cm) is:	sect at G at right angle. If AD =
Ans	√ 1. 10	
	X 2. 6	
	X 3. 9	
	X 4. 8	
		Question ID : 6549781786
		Status : Answered
		Chosen Option : 3
Q.90	If A is 40% less than B and C is 40% of the sum of A and B, then by what per	centage is B greater than C?
Ans	× 1. 60	
	\checkmark 2. $56\frac{1}{4}$	
	× 3. 40 ½	
	X 4. 36	
		Question ID : 6549781742
		Status : Answered
		06

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Q.91	When 5 children from class A join class B, the number of children in both classes is the same. If 25 children from B, join A, then the number of children in A becomes double the number of children in B. The ratio of the number of children in A to those in B is:	
Ans	X 1. 19:18	
	× 2. 9 : 8	
	× 3. 18:17	
	✓ 4. 19:17	
		Outstand ID a CEANTON TAIL
		Question ID : 6549781741 Status : Answered
		Chosen Option : 4
 ၃.92	A T.V. is sold at 8% gain. Had it been sold for ₹714 more, the gain would have been 1 of the T.V. should be:	5%. To gain 18%, the selling price
Ans	√ 1. ₹12,036	
	× 2. ₹12,138	
	X 3. ₹11,934	
	X 4. ₹12,240	
		Question ID : 6549781755
		Status : Answered
		Chosen Option : 1
J 03	7C - 1 1 - 7 1 - 3 1 1 3 1 - 3 2 1 - 17F 1 1 1 1 1 1 1	(() () () () () () () () () (
Ans	If $a + b + c = 7$ and $a^3 + b^3 + c^3 - 3abc = 175$, then what is the	e value of $(ab + bc + ca)$?
Alis	√ 1. 8	\checkmark
	X 2. 9	
	X 3. 7	
	X 4. 6	
		Question ID : 6549781779
		Status : Answered
		Chosen Option : 1
	If $x^2 + 4y^2 = 17$ and $xy = 2$, where $x > 0$, $y > 0$, then what	is the value of $x^3 + 8y^3$?
Ans	X 1. 95	
	× 2. 85	
	√ 3. 65	
	× 4. 76	
		Question ID : 6549781777

Status: Answered

Q.95 Amita travels from her house at $3\frac{1}{2}$ km/h and reaches her school 6 minutes late. The next day she travels at $4\frac{1}{2}$ km/h and reaches her school 10 minutes early. What is the distance between her house and the school? Ans X 1. 5.6 km × 2. 4.8 km X 3. 5.4 km ✓ 4. 4.2 km Question ID: 6549781766 Status: Answered Chosen Option: 4 In \triangle ABC, O is the incentre and \angle BOC = 135°. The measure of \angle BAC is: √ 1. 90° Ans X 2. 55° X 3. 80° X 4. 45 ° Question ID: 6549781784 Status: Answered Chosen Option: 1 Q.97 Study the given graph and answer the question that follows. Productions and Exports of Computers (In Thousands) by COMPANY XYZ in six Years ■ Production Exports 400 350 300 250 200 150 100 50 In which year was the production of computers by the company 16% more than the average exports of computers in the six years (2013 to 2018)? Ans X 1. 2015 X 2. 2018 X 3. 2014 4. 2016 Question ID: 6549781821 Status: Answered Chosen Option: 4

