



SSC CGL Tier-2 21-February-2018 Maths

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SSC CGL Tier-2 21-February-2018 Maths

Instructions

For the following questions answer them individually

Question 1

If $A = 1 - 10 + 3 - 12 + 5 - 14 + 7 + \dots$ upto 60 terms, then what is the value of A ?

- A -360
- B -310
- C -240
- D -270

Answer: D

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Question 2

How many natural numbers are there between 1000 to 2000, which when divided by 341 leaves remainder 5?

- A 3
- B 2
- C 4
- D 1

Answer: A

Question 3

Which of the following statement(s) is/are TRUE?

- I. $\sqrt{64} + \sqrt{0.0064} + \sqrt{0.81} + \sqrt{0.0081} = 9.07$
- II. $\sqrt{0.010201} + \sqrt{98.01} + \sqrt{0.25} = 11.51$

- A Only I
- B Only II
- C Both I and II
- D Neither I nor II

Answer: A

Question 4

Which of the following statement(s) is/are TRUE?

- I. $(0.7)^2 + (0.07)^2 + (11.1)^2 > 123.8$
- II. $(1.12)^2 + (10.3)^2 + (1.05)^2 > 108.3$

- A Only I
- B Only II

- C Both I and II
- D Neither I nor II

Answer: B

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Question 5

Which of the following statement(s) is/are TRUE?

I. $\frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots + \frac{1}{11 \times 13} = \frac{12}{13}$

II. $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{12 \times 13} = \frac{12}{13}$

- A Only I
- B Only II
- C Both I and II
- D Neither I nor II

Answer: B

Question 6

Which of the following statement(s) is/are TRUE?

I. $\frac{3}{71} < \frac{5}{91} < \frac{7}{99}$

II. $\frac{11}{135} > \frac{12}{157} > \frac{13}{181}$

- A Only I
- B Only II
- C Both I and II
- D Neither I nor II

Answer: C

Question 7

If $1 + \left(\frac{1}{2}\right) + \left(\frac{1}{3}\right) + \dots + \left(\frac{1}{20}\right) = k$, then what is the value of $\left(\frac{1}{4}\right) + \left(\frac{1}{6}\right) + \left(\frac{1}{8}\right) + \dots + \left(\frac{1}{40}\right)$?

- A $\frac{k}{2}$
- B $2k$
- C $\frac{(k-1)}{2}$
- D $\frac{(k+1)}{2}$

Answer: C

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Question 8

If $A = 2^{32}$, $B = 2^{31} + 2^{30} + 2^{29} + \dots + 2^0$ and $C = 3^{15} + 3^{14} + 3^{13} + \dots + 3^0$, then which of the following option is TRUE?

- A $C > B > A$
- B $C > A > B$
- C $A > B > C$
- D $A > C > B$

Answer: B

Question 9

If $x + y = 10$ and $xy = 4$, then what is the value of $x^4 + y^4$?

- A 8464
- B 8432
- C 7478
- D 6218

Answer: B

Question 10

M is the largest three digit number which when divided by 6 and 5 leaves remainder 5 and 3 respectively. What will be the remainder when M is divided by 11?

- A 1
- B 2
- C 3
- D 4

Answer: D

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Question 11

Which of the following statement(s) is/are TRUE?

- I. $\sqrt{5} + \sqrt{5} > \sqrt{7} + \sqrt{3}$
- II. $\sqrt{6} + \sqrt{7} > \sqrt{8} + \sqrt{5}$
- III. $\sqrt{3} + \sqrt{9} > \sqrt{6} + \sqrt{6}$

- A Only I
- B Only I and II
- C Only II and III
- D Only I and III

Answer: B

Question 12

If $a = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$ and $b = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$, then what is the value of $a^2 + b^2 - ab$?

- A 97
- B $(2\sqrt{3}) + 2$
- C $(4\sqrt{6}) + 1$
- D 98

Answer: A

Question 13

If the difference between the roots of the equation $Ax^2 - Bx + C = 0$ is 4, then which of the following is TRUE?

- A $B^2 - 16A^2 = 4AC + 4B^2$
- B $B^2 - 10A^2 = 4AC + 6A^2$
- C $B^2 - 8A^2 = 4AC + 10A^2$
- D $B^2 - 16A^2 = 4AC + 8B^2$

Answer: B

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Question 14

α and β are the roots of quadratic equation. If $\alpha + \beta = 8$ and $\alpha - \beta = 2\sqrt{5}$, then which of the following equation will have roots α^4 and β^4 ?

- A $x^2 - 1522x + 14641 = 0$
- B $x^2 + 1921x + 14641 = 0$
- C $x^2 - 1764x + 14641 = 0$
- D $x^2 + 2520x + 14641 = 0$

Answer: A

Question 15

If a and b are the roots of the equation $Px^2 - Qx + R = 0$, then what is the value of $\left(\frac{1}{a^2}\right) + \left(\frac{1}{b^2}\right) + \left(\frac{a}{b}\right) + \left(\frac{b}{a}\right)$?

- A $\frac{(Q^2 - 2P)(2R + P)}{PR^2}$
- B $\frac{(Q^2 - 2PR)(R + P)}{PR^2}$
- C $\frac{(Q^2 - 2R)(2P + R)}{P^2R^2}$

D $\frac{(Q^2 - 2PR)(2R + 2P)}{P^2R^2}$

Answer: B

Question 16

If $x^2 - 16x - 59 = 0$, then what is the value of $(x - 6)^2 + \left[\frac{1}{(x-6)^2}\right]$?

A 14

B 18

C 16

D 20

Answer: B

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Question 17

If A and B are the roots of the equation $Ax^2 - A^2x + AB = 0$, then what is the value of A and B respectively?

A 1, 0

B 1, 1

C 0, 2

D 0, 1

Answer: A

Question 18

α and β are the roots of the quadratic equation $x^2 - x - 1 = 0$. What is the value of $\alpha^2 + \beta^2$?

A 47

B 54

C 59

D 68

Answer: A

Question 19

If $a + b + c = 9$, $ab + bc + ca = 26$, $a^3 + b^3 = 91$, $b^3 + c^3 = 72$ and $c^3 + a^3 = 35$, then what is the value of abc ?

A 48

B 24

C 36

D 42

Answer: B

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Question 20

If $x^3 - 4x^2 + 19 = 6(x - 1)$, then what is the value of $[x^2 + (\frac{1}{x-4})]$?

- A 3
- B 5
- C 6
- D 8

Answer: C

Question 21

Cost of 8 pencils, 5 pens and 3 erasers is Rs 111. Cost of 9 pencils, 6 pens and 5 erasers is Rs 130. Cost of 16 pencils, 11 pens and 3 erasers is Rs 221. What is the cost (in Rs) of 39 pencils, 26 pens and 13 erasers?

- A 316
- B 546
- C 624
- D 482

Answer: B

Question 22

If $2x + 3y - 5z = 18$, $3x + 2y + z = 29$ and $x + y + 3z = 17$, then what is the value of $xy + yz + zx$?

- A 32
- B 52
- C 64
- D 46

Answer: B

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Question 23

PQR is an equilateral triangle whose side is 10 cm. What is the value (in cm) of the inradius of triangle PQR?

- A $\frac{5}{\sqrt{3}}$
- B $10\sqrt{3}$

C $\frac{10}{\sqrt{3}}$

D $5\sqrt{2}$

Answer: A

Question 24

What is the area (in cm^2) of the circumcircle of a triangle whose sides are 6 cm, 8 cm and 10 cm respectively?

A $\frac{275}{7}$

B $\frac{550}{7}$

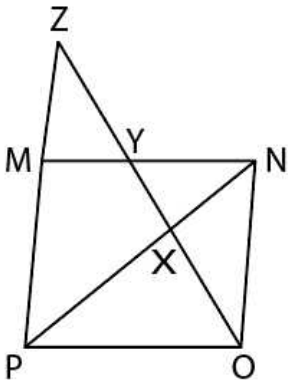
C $\frac{2200}{7}$

D $\frac{1100}{7}$

Answer: B

Question 25

In the given figure, MNOP is a parallelogram. PM is extended to Z. OZ intersects MN and PN at Y and X respectively. If $OX = 27$ cm and $XY = 18$ cm, then what is the length (in cm) of YZ?



A 21.4

B 22.5

C 23.8

D 24.5

Answer: B

General Science Notes for SSC CGL

Question 26

ABCD is a trapezium in which AB is parallel to CD and $AB = 4(CD)$. The diagonals of the trapezium intersect at O. What is the ratio of area of triangle DCO to the area of the triangle ABO?

A 1 : 4

B 1 : 2

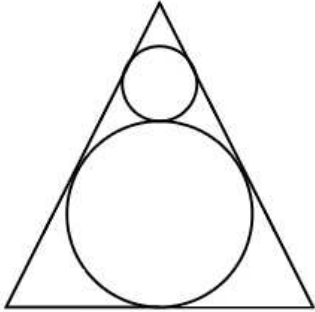
C 1 : 8

D 1 : 16

Answer: D

Question 27

In the given figure, ABC is an equilateral triangle. Two circles of radius 4 cm and 12 cm are inscribed in the triangle. What is the side (in cm) of an equilateral triangle?



A $\frac{32}{\sqrt{3}}$

B $32\sqrt{3}$

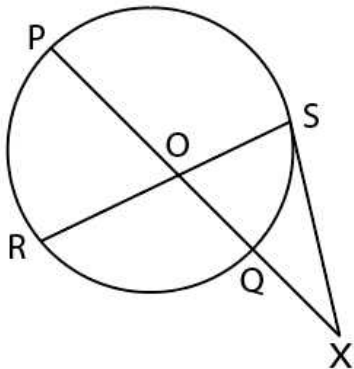
C $\frac{64}{\sqrt{3}}$

D $64\sqrt{2}$

Answer: E

Question 28

In the given figure, SX is tangent. $SX = OX = OR$. If $QX = 3$ cm and $PQ = 9$ cm, then what is the value (in cm) of OS ?



A 6

B 5

C 4

D 3

Answer: D

Question 29

PAB and PCD are two secants to a circle. If PA = 10 cm, AB = 12 cm and PC = 11 cm, then what is the value (in cm) of PD?

- A 18
- B 9
- C 20
- D 12

Answer: C

Question 30

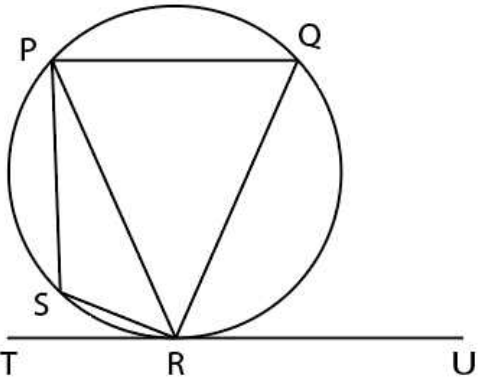
Triangle PQR is inscribed in a circle such that P, Q and R lie on the circumference. If PQ is the diameter of the circle and $\angle PQR = 40^\circ$, then what is the value (in degrees) of $\angle QPR$?

- A 40
- B 45
- C 50
- D 55

Answer: C

Question 31

In the given figure, $\angle QRU = 72^\circ$, $\angle TRS = 15^\circ$ and $\angle PSR = 95^\circ$, then what is the value (in degrees) of $\angle PQR$?



- A 85
- B 95
- C 75
- D 90

Answer: B

Question 32

What can be the maximum number of common tangent which can be drawn to two non-intersecting circles?

- A 2
- B 4
- C 3
- D 6

Answer: B

Question 33

Triangle PQR is inscribed in the circle whose radius is 14 cm. If PQ is the diameter of the circle and $PR = 10$ cm, then what is the area of the triangle PQR ?

- A 196
- B $30\sqrt{19}$
- C $40\sqrt{17}$
- D $35\sqrt{21}$

Answer: B

Question 34

PQR is a right angled triangle in which $PQ = QR$. If the hypotenuse of the triangle is 20cm, then what is the area (in cm^2) of the triangle PQR ?

- A $100\sqrt{2}$
- B 100
- C $50\sqrt{2}$
- D 50

Answer: B

SSC CPO Previous Question papers (download pdf)

Question 35

$PQRS$ is a square whose side is 20cm. By joining opposite vertices of $PQRS$ are get four triangles. What is the sum of the perimeters of the four triangles?

- A $40\sqrt{2}$
- B $80\sqrt{2} + 80$
- C $40\sqrt{2} + 40$
- D $40\sqrt{2} + 80$

Answer: B

Question 36

If $ABCDEF$ is a regular hexagon, then what is the value (in degrees) of $\angle ADB$?

- A 15
- B 30
- C 45
- D 60

Answer: B

Question 37

$ABCD$ is square and CDE is an equilateral triangle outside the square. What is the value (in degrees) of $\angle BEC$?

- A 15
- B 30
- C 25
- D 10

Answer: A

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Question 38

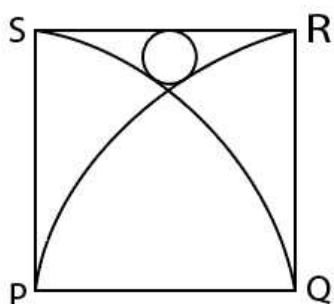
There is a circular garden of radius 21 metres. A path of width 3.5 metres is constructed just outside the garden. What is the area (in metres²) of the path?

- A 50.05
- B 57.56
- C 52.12
- D 56.07

Answer: E

Question 39

In the given figure, $PQRS$ is a square whose side is 8cm. PQS and QPR are two quadrants. A circle is placed touching both the quadrants and the square as shown in the figure. What is the area (in cm^2) of the circle ?



A $\frac{13}{17}$

B $\frac{11}{14}$

C $\frac{19}{31}$

D $\frac{15}{19}$

Answer: B

Question 40

The base of a prism is in the shape of an equilateral triangle. If the perimeter of the base is 18cm and the height of the prism is 20cm , then what is the volume (in cm^3) of the prism?

A $60\sqrt{3}$

B $30\sqrt{6}$

C $60\sqrt{2}$

D $120\sqrt{3}$

Answer: E

SSC MTS Previous Question papers (download pdf)

Question 41

The height of a cone is 24cm and the area of the base is 154cm^2 . What is the curved surface area (in cm^2) of the cone?

A 484

B 550

C 525

D 515

Answer: B

Question 42

A right circular solid cylinder has radius of base 7cm and height is 28cm . It is melted to form a cuboid such that the ratio of its side is $2 : 3 : 6$. What is the total surface area (in cm^2) cuboid?

A $\sqrt{\frac{2156}{3}}$

B $\sqrt{\frac{2156}{9}}$

C $\sqrt{\frac{2148}{3}}$

D $\sqrt{\frac{2048}{3}}$

Answer: E

Question 43

A right circular cylinder is formed. A = sum of total surface area and the area of the two bases. B = the curved surface area of this cylinder. If $A : B = 3 : 2$ and the volume of cylinder is 4312 cm^3 , then what is the sum of area (in cm^2) of the two bases of this cylinder?

- A 154
- B 308
- C 462
- D 616

Answer: B

SSC Stenographer Previous Question papers (download pdf)

Question 44

A solid sphere has a radius 21 cm. It is melted to form a cube. 20% material is wasted in this process. The cube is melted to form hemisphere. In this process 20% material is wasted. The hemisphere is melted to form two spheres of equal radius. 20% material was also wasted in this process. What is the radius (in cm) of each new sphere?

- A $4.2(\sqrt[3]{2})$
- B $2.1(\sqrt[3]{2})$
- C $2.1(\sqrt[3]{4})$
- D $4.2(\sqrt[3]{4})$

Answer: B

Question 45

A solid hemisphere has radius 14 cm. It is melted to form a cylinder such that the ratio of its curved surface area and total surface area is $2 : 3$. What is the radius (in cm) of its base?

- A $\frac{10}{\sqrt[3]{3}}$
- B $\frac{14}{\sqrt[3]{3}}$
- C $\frac{7}{\sqrt[3]{3}}$
- D $\frac{21}{\sqrt[3]{3}}$

Answer: B

Question 46

A cuboid has dimensions $8\text{cm} \times 10\text{cm} \times 12\text{cm}$. It is cut into small cubes of side 2cm . What is the percentage increase in the total surface area?

- A 286.2

- B 314.32
- C 250.64
- D 386.5

Answer: D

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Question 47

A pyramid has a square base. The side of square is 12cm and height of pyramid is 21cm . The pyramid is cut into 3 parts by 2 cuts parallel to its base. The cuts are at height of 7cm and 14cm respectively from the base. What is the difference (in cm^3) in the volume of top most and bottom most part?

- A 872
- B 944
- C 786
- D 918

Answer: E

Question 48

What is the value of $\frac{\{(\sin 4x + \sin 4y)[(\tan 2x - 2y)]\}}{(\sin 4x - \sin 4y)}$?

- A $\tan 2(2x + 2y)$
- B \tan^2
- C $\cot(x - y)$
- D $\tan(2x + 2y)$

Answer: D

Question 49

What is the value of $\frac{(32 \cos^6 x - 48 \cos^4 x + 18 \cos^2 x - 1)}{[4 \sin x \cos x \sin(60-x) \cos(60-x) \sin(60+x) \cos(60+x)]}$?

- A $4 \tan 6x$
- B $4 \cot 6x$
- C $8 \cot 6x$
- D $8 \tan 6x$

Answer: C

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Question 50

What is the value of $\frac{2 \cot \frac{A}{2} \times \left[\frac{1 + \tan^2 \frac{A}{2} \right]}{1 + \tan^2 \frac{A}{2}}$?

- A $2 \sin^2 \frac{A}{2}$
- B $\cos A$
- C $\sin A$
- D $2 \cos^2 \frac{A}{2}$

Answer: C

Question 51

If $\tan \theta + \sec \theta = \frac{x-2}{x+2}$, then what is the value of $\cos \theta$?

- A $\frac{x^2-1}{x^2+1}$
- B $\frac{2x^2-4}{2x^2+4}$
- C $\frac{x^2-4}{x^2+4}$
- D $\frac{x^2-2}{x^2+2}$

Answer: C

Question 52

What is the value of $(\cos 40^\circ - \cos 140^\circ)/(\sin 80^\circ + \sin 20^\circ)$?

- A $2\sqrt{3}$
- B $\frac{2}{\sqrt{3}}$
- C $\frac{1}{\sqrt{3}}$
- D $\sqrt{3}$

Answer: B

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Question 53

What is the value of $\frac{1 - \tan(90-\theta) + \sec(90-\theta)}{\tan(90-\theta) + \sec(90-\theta) + 1}$?

- A $\cot\left(\frac{\theta}{2}\right)$
- B $\tan\left(\frac{\theta}{2}\right)$

C $\sin \theta$

D $\cos \theta$

Answer: B

Question 54

What is the value of $\frac{[\sin(90-A) + \cos(180-2A)]}{[\cos(90-2A) + \sin(180-A)]}$?

A $\sin\left(\frac{A}{2}\right) \cos A$

B $\cot\left(\frac{A}{2}\right)$

C $\tan\left(\frac{A}{2}\right)$

D $\sin A \cos\left(\frac{A}{2}\right)$

Answer: C

Question 55

The distance between the tops of two building 38 metres and 58 metres high is 52 metres. What will be the distance (in metres) between two buildings?

A 46

B 42

C 44

D 48

Answer: D

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Question 56

The angles of elevation of the top of a tree 220 meters high from two points lie on the same plane are 30° and 45° . What is the distance (in metres) between the two points?

A 193.22

B 144.04

C 176.12

D 161.05

Answer: D

Question 57

The angles of elevation of the top of a tower 72 metre high from the top and bottom of a building are 30° and 60° respectively. What is the height (in metres) of building?

A 42

- B $20\sqrt{3}$
- C $24\sqrt{3}$
- D 48

Answer: D

Instructions

The table given below shows the number of students who were absent and percentage of students who were present in the given two examinations from five different schools. The table also shows the percentage of students who were present in the Biology and Physics examination respectively.

School	Absent	Present (in %)	Biology (in %)	Physics (in %)
K	83300	65	32	68
L	101520	60	29	71
M	113520	40	30	70
N	60830	65	42	58
O	24003	55	25	75

Question 58

What is the difference between the number of students who were present in Physics and Biology examination from school N?

- A 21150
- B 14352
- C 22594
- D 24250

Answer: C

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Question 59

Number of students who were present in Physics examination from school M is what percent of number of students who were absent from school M, L and O?

- A 22.48
- B 29.28
- C 9.09
- D 13.4

Answer: E

Question 60

What is the average of the number of the students who were present in Physics examination from school N, K and L?

- A 109635

B 84632

C 74365

D 67894

Answer: E

Question 61

What are the total number of students who were present in the Biology examination from all the schools together?

A 193462

B 249048

C 326438

D 211738

Answer: E

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Question 62

If the number of students who were present in the Physics examination from school A is 250% of the difference of the number of the students who were present in Physics and Biology examination, from school K, then what is the ratio of the number of students who were present from school L to number of students who were present in Physics examination from school A?

A 5079 : 4631

B 1692 : 1547

C 1547 : 4631

D 1692 : 2345

Answer: B

Instructions

For the following questions answer them individually

Question 63

A jar contains a blend of a fruit juice and water in the ratio 5 : x. When 1 litre of water is added to 4 litres of the blend the ratio of fruit juice to water becomes 1 : 1. What is the value of x?

A 3

B 1

C 2

D 4

Answer: A

Question 64

An alloy contains copper and tin in the ratio 3 : 2. If 250 gm of copper is added to this alloy then the copper in it becomes double the quantity of tin in it. What is the amount (in gm) of tin in the alloy?

- A 250
- B 750
- C 1000
- D 500

Answer: D

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Question 65

A starts a cement trading business by investing Rs 5 lakhs. After 2 months, B joins the business by investing Rs 10 lakhs and then 4 months after B joined C too joins them by investing Rs 20 lakhs. 1 year after A started the business they make Rs 3,50,000 in profit. What is B's share of the profit (in Rs)?

- A 75000
- B 1,25,000
- C 1,50,000
- D 1,00,000

Answer: B

Question 66

A, B and C invest in a business in the ratio 3 : 6 : 5. A and C are working partners. Only B is a sleeping partner hence his share will be $\frac{3}{4}$ of what it would have been if he were a working partner. If they make Rs 50,000 profit, half of which is reinvested in the business and the other half is distributed between the partners, then how much does C get (in Rs)?

- A 20000
- B 6000
- C 10000
- D 9000

Answer: C

Question 67

A can do a work in 21 days and B in 42 days. If they work on it together for 7 days, then what fraction of work is left?

- A $\frac{1}{3}$
- B $\frac{1}{4}$
- C $\frac{2}{3}$

D $\frac{1}{2}$

Answer: D

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Question 68

A can paint a house in 55 days and B can do it in 66 days. Along with C, they did the job in 12 days only. Then, C alone can do the job in how many days?

A 24

B 44

C 33

D 20

Answer: D

Question 69

A, B and C together can finish a task in 12 days. A is twice as productive as B and C alone can do the task in 36 days. In how many days can A and B do the task if C goes on leave?

A 10

B 20

C 15

D 18

Answer: D

Question 70

A, B and C can together do a job in 9 days. C alone can do the job in 36 days. In how many days can A and B do 50% of the job working together?

A 6

B 12

C 9

D 15

Answer: A

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Question 71

Giving two successive discounts of 25% is equal to giving one discount of _____%.

A 43.75

B 56.25

C 50

D 45

Answer: A

Question 72

If a watch is being sold at Rs 7,225 which is marked at Rs 8,500, then what is the discount (in %) at which the watch is being sold?

A 24

B 15

C 25

D 20

Answer: B

Question 73

On a machine there is 10% trade discount on the marked price of Rs 2,50,000. But the machine is sold at Rs 2,16,000 after giving a cash discount. How much is this cash discount (in %)?

A 5

B 4

C 6

D 7

Answer: B

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Question 74

A trader marks up his goods by 120% and offers 30% discount. What will be the selling price (in Rs) if the cost price is Rs 750?

A 1225

B 1080

C 1280

D 1155

Answer: D

Question 75

Sanjay's test marks in two subjects, English and Hindi are in the ratio 7 : 11. If he got 20 marks more in Hindi than in English, what are his marks in English?

A 35

B 55

C 45

D 65

Answer: A

Question 76

The ratio of present ages of Simi and Seema is 5 : 4. After 9 years the ratio of their ages will be 8 : 7. What is Simi's present age (in years)?

A 12

B 15

C 24

D 21

Answer: B

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Question 77

Find the third proportional to 6 and 12.

A 18

B 9

C 24

D 15

Answer: C

Question 78

According to the will the wealth of Rs 21,25,000 was to be divided between the son and the daughter in the ratio $\frac{7}{6} : \frac{5}{3}$. How much did the son get (in Rs)?

A 8,75,000

B 12,50,000

C 10,00,000

D 11,25,000

Answer: A

Question 79

If Rs 25,000 is to be divided between A, B and C in the ratio $\frac{1}{10} : \frac{1}{6} : \frac{1}{15}$, then how much will C get (in Rs)?

A 5000

B 7500

C 10000

D 12500

Answer: A

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Question 80

Rizwan has a box in which he kept red and blue marbles. The red marbles and blue marbles were in the ratio 5 : 4. After he lost 5 red marbles the ratio became 10 : 9. How many marbles does he have now?

A 81

B 86

C 76

D 91

Answer: C

Question 81

The average weight of L, M and N is 93 kg. If the average weight of L and M be 89 kg and that of M and N be 96.5 kg, then the weight (in kg) of M is _____.

A 92

B 86

C 101

D 95

Answer: A

Question 82

Mahesh buys 3 shirts at an average price of Rs 1250. If he buys 2 more shirts at an average price of Rs 1450 what will be the average price (in Rs) of all the 5 shirts he buys?

A 1370

B 1330

C 1310

D 1390

Answer: B

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Question 83

In a one day match of 50 overs in an innings the Team A had a run rate of 6.1 runs per over. Team B is playing and 10 overs are left and the required run rate to tie the match is 6.5 per over. What is Team B's score now?

- A 235
- B 230
- C 240
- D 225

Answer: C

Question 84

Average of all even numbers between 222 and 250 is _____.

- A 234
- B 232
- C 236
- D 230

Answer: C

Question 85

A vendor buys bananas at 7 for Rs 6 and sells at 6 for Rs 7. What will be the result?

- A 36.1% loss
- B 26.5% profit
- C 36.1% profit
- D 26.5% loss

Answer: C

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Question 86

A miner sells a diamond to a trader at a profit of 40% and the trader sells it to a customer at a profit of 25%. If the customer pays Rs 56 lakhs to buy the diamond, what had it cost the miner (in Rs lakhs)?

- A 30
- B 28
- C 25
- D 32

Answer: D

Question 87

A grocer had 1600 kgs of wheat. He sold a part of it at 20% profit and the rest at 12% profit, so that he made a total profit of 17%. How much wheat (in kg) did he sell at 20% profit?

- A 600

- B 1000
- C 800
- D 1200

Answer: B

Question 88

A used two-wheeler dealer sells a scooter for Rs 46,000 and makes some loss. If he had sold it for Rs 58,000 his profit would have been double his loss. What was the cost price (in Rs) of the scooter?

- A 52000
- B 54000
- C 48000
- D 50000

Answer: D

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Question 89

0.08% of 120% of 50,000 is equal to _____.

- A 480
- B 48
- C 4800
- D 4.8

Answer: B

Question 90

When a number is increased by 24, it becomes 115% of itself. What is the number?

- A 160
- B 250
- C 100
- D 200

Answer: A

Question 91

Two numbers are 40% and 80% lesser than a third number. By how much percent is the second number to be enhanced to make it equal to the first number?

- A 100
- B 33.3

C 66.6

D 200

Answer: D

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Question 92

Price of diesel increased from Rs 45/litre to Rs 50/litre. How much should the consumption of diesel be reduced (in %) so as to increase expenditure by only 5%?

A 5.5

B 5

C 4

D 4.5

Answer: A

Question 93

A plane flies a distance of 1800 km in 5 hours. What is its average speed in meters/second?

A 200

B 10

C 20

D 100

Answer: D

Question 94

If a boat goes upstream at a speed of 24 km/hr and comes back the same distance at 40 km/hr. What is the average speed (in km/hr) for the total journey.

A 32

B 30

C 31

D 33

Answer: B

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Question 95

Two bikers A and B start and ride at 75 km/hr and 60 km/hr respectively towards each other. They meet after 20 minutes. How far (in km) were they from each other when they started?

A 60

- B 45
- C 30
- D 15

Answer: B

Question 96

Excluding stoppages, the speed of a bus is 80 kmph and including stoppages, it is 60 kmph. For how many minutes does the bus stop per hour?

- A 12
- B 15
- C 18
- D 20

Answer: B

Question 97

In 2 years at simple interest the principal increases by 8%. What will be the compound interest earned (in Rs) on Rs 10 lakhs in 2 years at the same rate?

- A 86000
- B 81600
- C 90000
- D 94000

Answer: B

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Question 98

If the compound interest for the 3rd and 4th year on a certain principal is Rs 125 and Rs 135 respectively, what is the rate of interest (in %)?

- A 9
- B 10
- C 8
- D 12

Answer: C

Question 99

A certain bank offers 8% rate of interest on the 1st year and 9% on the 2nd year in a certain fixed deposit scheme. If Rs 17,658 are received after investing for 2 years in this scheme, then what was the amount (in Rs) invested?

- A 16000
- B 15000
- C 15500
- D 16500

Answer: B

Question 100

What is the difference (in Rs) in Compound interest earned in 1 year on a sum of Rs 25,000 at 20% per annum compounded semi-annually and annually?

- A 125
- B 250
- C 500
- D 375

Answer: B

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