



SSC CGL Tier-2 9-March-2018 Maths Shift-2

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SSC CGL Tier-2 9-March-2018 Maths Shift-2

Instructions

For the following questions answer them individually

Question 1

How many two digit prime numbers are there between 10 to 100 which remains prime numbers when the order of their digits is reversed?

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

Answer: B

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Question 2

How many perfect cubes are there between 1 and 100000 which are divisible by 7?

- A 5
- B 6
- C 7
- D 15

Answer: B

Question 3

If $A = 0.142857142857$ and $B = 0.16666 \dots$, then what is the value of $\frac{(A+B)}{AB}$?

- A 10
- B 11
- C 12
- D 13

Answer: D

Question 4

If $A = 0.\text{abcabc} \dots$, then by what number A should be multiplied so as to get an integral value?

- A 2997
- B 1000
- C 1998
- D Both 2997 and 1998

Answer: D

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Question 5

What is the sum of

$\frac{1}{2} + 4\frac{1}{6} + 7\frac{1}{12} + 10\frac{1}{20} \dots \dots \dots$ upto 20 terms?

A $\frac{12410}{21}$

B $\frac{12412}{21}$

C $\frac{12433}{21}$

D $\frac{1179}{2}$

Answer: A

Question 6

If $\binom{1}{2^1} + \binom{1}{2^2} + \binom{1}{2^3} \dots \dots \binom{1}{2^{10}} = \frac{1}{k}$, then what is the value of k ?

A $\frac{512}{511}$

B $\frac{1024}{1023}$

C $\frac{511}{512}$

D $\frac{1023}{1024}$

Answer: B

Question 7

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

I. $1\frac{2}{3} + 2\frac{3}{4} + 3\frac{4}{5} > 8$

II. $6\frac{1}{2} - 5\frac{3}{4} + 4\frac{1}{4} > 5$

A only I

B only II

C Neither I nor II

D Both I and II

Answer: A

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Question 8

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

I. Highest common factor of $(3^{2002} - 1)$ and $(3^{2002} + 1)$ is 4

II. $(4^{84} - 1)$ is exactly divisible by 5

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

Answer: B

Question 9

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

- I. $1^{99} + 2^{99} + 3^{99} + 4^{99} + 5^{99}$ is exactly divisible by 5
- II. $31^{11} > 17^{14}$

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

Answer: A

Question 10

$N = 2^{48} - 1$ and N are exactly divisible by two numbers between 60 and 70. What is the sum of those two numbers?

- A 128
- B 256
- C 64
- D 512

Answer: A

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Question 11

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

- I. $\sqrt{625} + \sqrt[3]{1296} + \sqrt{1024} > 90$
- II. $\sqrt{\sqrt{729}} + \sqrt{\sqrt{256}} = 5$

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

Answer: B

Question 12

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

- I. $\sqrt{1} + \sqrt{2} + \sqrt{3} + \sqrt{4} + \sqrt{5} + \sqrt{6} > 10$
- II. $\sqrt{(10)} + \sqrt{(12)} + \sqrt{(14)} > 3\sqrt{(12)}$

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

Answer: A

Question 13

If $y^2 = y + 7$, then what is the value of y^3 ?

- A $8y + 7$
- B $y + 14$
- C $y + 2$
- D $4y + 7$

Answer: A

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Question 14

If $f(x) = (x - 2)(x^2 + Px + 4)$ and $(x - 3)$ is a factor of $f(x)$, then what is the value of P ?

- A 4
- B -4
- C $-\frac{13}{3}$
- D $\frac{13}{3}$

Answer: C

Question 15

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

- A $114\sqrt{3} + 1$
- B $134\sqrt{2}$
- C $142\sqrt{2} + 3$
- D $140\sqrt{2}$

Answer: D

Question 16

x, y and z all are positive number. If $3^x > 9^y$ and $2^y > 4^z$, then which of the following is TRUE?

- A $x > y > z$
- B $x > z > y$
- C $z > y > x$
- D $y > x > z$

Answer: A

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Question 17

If $x = \left(\frac{1}{8}\right)$, which of the following has the largest values?

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

Answer: D

Question 18

If $X = \frac{1}{1+1+x}$ and $Y = \frac{2}{2+1+y}$, then which of the following can be the value of $X + Y$

- A $\frac{-\sqrt{5}-\sqrt{17+3}}{4}$
- B $\frac{2\sqrt{5}+\sqrt{17-3}}{4}$
- C $\frac{-\sqrt{5}+\sqrt{17+1}}{4}$
- D $\frac{(\sqrt{5}+\sqrt{17-1})}{4}$

Answer: B

Question 19

If $P = 2^{29} \times 3^{21} \times 5^8, Q = 2^{27} \times 3^{21} \times 5^8, R = 2^{26} \times 3^{22} \times 5^8$ and $S = 2^{25} \times 3^{22} \times 5^9$, then which of the following is TRUE?

- A $P > S > R > Q$
- B $S > P > R > Q$
- C $P > R > S > Q$
- D $S > P > Q > R$

Answer: A

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Question 20

If $A = 125$ and $B = 8$, then what is the value of

$$(A + B)^3 - (A - B)^3 - 6B(A^2 - B^2)?$$

- A 4096
- B 4608
- C 4224
- D 3456

Answer: A

Question 21

If $X^y = 1$, $Y^z = 125$ and $Z^x = 243$ (X, Y and Z are natural numbers), then what is the value of $9X + 10Y - 18Z$?

- A 18
- B 15
- C 12
- D 5

Answer: D

Question 22

If $3x + 6y + 9z = \frac{20}{3}$, $6x + 9y + 3z = \frac{17}{3}$ and $18x + 27y - z = \frac{113}{9}$, then what is the value of $75x + 113y$?

- A $\frac{163}{3}$
- B $\frac{143}{6}$
- C $\frac{218}{9}$
- D $\frac{311}{3}$

Answer: A

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Question 23

If sides of a triangle are 12 cm, 15 cm and 21 cm, then what is the inradius (in cm) of the triangle?

- A $\frac{5\sqrt{3}}{2}$
- B $4\sqrt{3}$

C $\frac{(3\sqrt{6})}{2}$ 

D $3\sqrt{3}$

Answer: C

Question 24

In a triangle ABC, AB = 12, BC = 18 and AC = 15. The medians AX and BY intersect sides BC and AC at X and Y respectively. If AX and BY intersect each other at O, then what is the value of OX?

A $4\sqrt{23}$

B $\sqrt{23}$

C $2\sqrt{23}$

D $\frac{(\sqrt{23})}{(\sqrt{2})}$

Answer: D

Question 25

In a triangle PQR, PX bisects QR. PX is the angle bisector of angle P. If PQ = 12 cm and QX = 3 cm, then what is the area (in cm^2) of triangle PQR?

A $12\sqrt{3}$

B $8\sqrt{15}$

C $18\sqrt{2}$

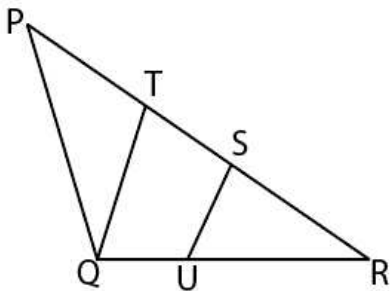
D $9\sqrt{15}$

Answer: D

General Science Notes for SSC CGL

Question 26

In the given figure $PT : TS : SR = 2 : 1 : 1$ and SU is parallel to TQ. If RU = 10 cm, RS = 8 cm and SU = 6 cm, then what is the value (in cm) of PQ?



A 12

B 10

C 20

D 30

Answer: C

Question 27

PQ and RS are two chords of a circle. PQ = 20 cm, RS = 48 cm and PQ is parallel to RS. If the distance between PQ and RS is 34 cm, then what is the area (in cm^2) of the circle?

A 729π

B 900π

C 676π

D 784π

Answer: C

Question 28

Centre of two concentric circles is O. The area of two circles is 616 cm^2 and 154 cm^2 respectively. A tangent is drawn through point A on the larger circle to the smaller circle. This tangent touches small circle at B and intersects larger circle at C. What is the length (in cm) of AC?

A $12\sqrt{3}$

B $14\sqrt{3}$

C $10\sqrt{6}$

D $18\sqrt{2}$

Answer: B

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Question 29

PA and PB are two tangents drawn to two circles of radius 3 cm and 5 cm respectively. PA touches the smaller and larger circles at points X and Y respectively. PB touches the smaller and large circle at point U and V respectively. The centres of the smaller and larger circles O and N respectively. If ON = 12 cm, then what is the value (in cm) of PY?

A $5\sqrt{35}$

B $7\sqrt{15}$

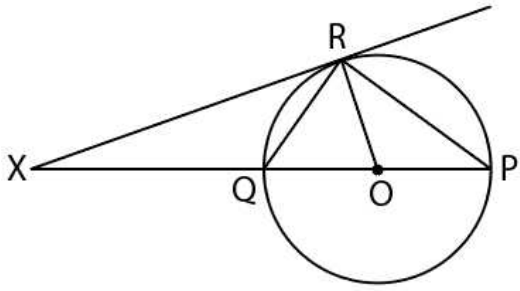
C $9\sqrt{15}$

D $12\sqrt{5}$

Answer: A

Question 30

XR is a tangent to the circle. O is the centre of the circle. If $\angle XRP = 120^\circ$, then what is the value (in degrees) of $\angle QOR$?

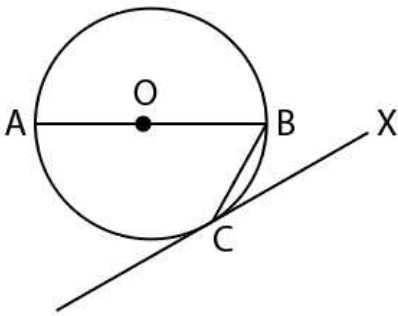


- A 80
- B 70
- C 60
- D 40

Answer: C

Question 31

O is the centre of the circle. A tangent is drawn which touches the circle at C. If $\angle AOC = 80^\circ$, then what is the value (in degrees) of $\angle BCX$?



- A 80
- B 30
- C 40
- D 50

Answer: D

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Question 32

The distance between the centres of two circles is 24 cm. If the radius of the two circles are 4 cm and 8 cm, then what is the sum of the lengths (in cm) of the direct common tangent and the transverse common tangent?

- A $4(3\sqrt{3} + \sqrt{35})$
- B $4(4\sqrt{35} + 3\sqrt{3})$

- C $4(\sqrt{35} + 3\sqrt{3})$
D $4\sqrt{3}(\sqrt{35} + 3\sqrt{3})$

Answer: C

Question 33

ABC is triangle. AB = 10 cm and BC = 16 cm. AD = 8 cm and is perpendicular to side BC. What is the length (in cm) of side AC?

- A $4\sqrt{41}$
B $2\sqrt{41}$
C $2\sqrt{82}$
D $4\sqrt{82}$

Answer: B

Question 34

An equilateral triangle of side 12 cm is drawn. What is the area (in cm^2) of the largest square which can be drawn inside it?

- A $1512 - 864\sqrt{3}$
B $3024 - 1728\sqrt{3}$
C $3024 + 1728\sqrt{3}$
D $1512 + 864\sqrt{3}$

Answer: B

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Question 35

PQRS is a rectangle. The ratio of the sides PQ and QR is 3 : 1. If the length of the diagonal PR is 10 cm, then what is the area (in cm^2) of the rectangle?

- A 15
B 30
C 45
D 20

Answer: B

Question 36

ABCDEF is a regular hexagon. What is the ratio of the area of triangle ACE and area of triangle AEF?

- A 6 : 1
B 4 : 1

C 3 : 1

D 5 : 1

Answer: C

Question 37

$ABCD$ is a trapezium. Sides AB and CD are parallel to each other. $AB = 6$ cm, $CD = 18$ cm, $BC = 8$ cm and $AD = 12$ cm. A line parallel to AB divides the trapezium in two parts of equal perimeter. This line cuts BC at E and AD at F . If $\frac{BE}{EC} = \frac{AF}{FD}$, then what is the value of $\frac{BE}{EC}$?

A $\frac{1}{2}$

B 2

C 4

D $\frac{1}{4}$

Answer: C

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Question 38

A rectangular sheet of length 42 cm and breadth 14 cm is cut from a circular sheet. What is the minimum area (in cm^2) of circular sheet?

A 3080

B 1540

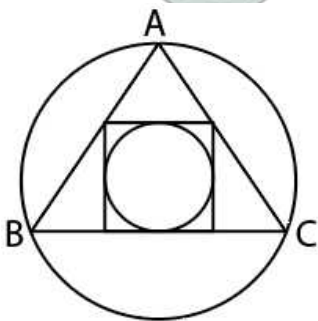
C 770

D 1030

Answer: B

Question 39

An equilateral triangle ABC is inscribed in a circle as shown in figure. A square of largest possible area is made inside this triangle as shown. Another circle made inscribing the square. What is the ratio of area of large circle and the small circle?



A $(15 - 12\sqrt{3}) : 1$

B $(63 - 36\sqrt{3}) : 4$

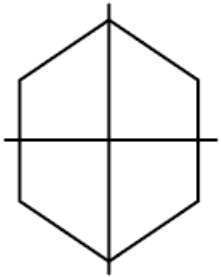
C $(7 - 4\sqrt{3}) : 8$

D $(18 - \sqrt{3}) : 2$

Answer: B

Question 40

A prism has a regular hexagonal base whose side is 12 cm. The height of the prism is 24 cm. It is cut into 4 equal parts by 2 perpendicular cuts as shown in figure. What is the sum of the total surface area of the four parts ?



A $1728 + 432\sqrt{3}$

B $2880 + 1008\sqrt{3}$

C $2880 + 432\sqrt{3}$

D $1728 + 1008\sqrt{3}$

Answer: B

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Question 41

Four identical cones each of radius 10.5 cm and height 14 cm are cut from a cuboid of dimensions $30\text{cm} \times 32\text{cm} \times 40\text{cm}$ (base of each cone lies on the surface of cuboid). What is the total surface area (in cm^2) of the remaining solid?

A 6528

B 7804

C 5926

D 6824

Answer: B

Question 42

A hollow cylinder of thickness 0.7 cm and height 15 cm is made of iron. If inner radius of cylinder is 3.5 cm, then what is the total surface area (in cm^2) of the hollow cylinder?

A 812.12

B 768.42

C 759.88

D 828.42

Answer: C

Question 43

A hollow cylinder has height 90 cm and the outer curved surface area is 11880 cm^2 . It can hold 55440 cm^3 of air inside it. What is the thickness (in cm) of this cylinder?

- A 10.5
- B 14
- C 7
- D 3.5

Answer: C

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Question 44

A hollow sphere is melted to form small identical hollow spheres. Inner and outer radius of the bigger sphere are 4 cm and 6 cm respectively. If inner and outer radii of the smaller sphere are 2 cm and 3 cm respectively, then how many smaller spheres can be formed?

- A 4
- B 8
- C 6
- D 12

Answer: B

Question 45

A hemispherical dome is open from its base and is made of iron. Thickness of dome is 3.5 meter. Total cost of painting domes outer curved surface is Rs 2464. If the rate of painting is Rs 8 per meter², then what is the volume (in meter³) of iron used in making dome?

- A 656.42
- B 614.21
- C 524.46
- D 628.83

Answer: D

Question 46

A solid cuboid has dimensions $14\text{cm} \times 18\text{cm} \times 24\text{cm}$. A hemisphere of radius 3.5 cm is cut from the centre of each face of cuboid. What is the total surface area (in cm^2) of the remaining solid?

- A 1902
- B 1809
- C 1706

D 2271

Answer: D

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Question 47

A right pyramid with square base has side of base 12 cm and height 40 cm. It is kept on its base. It is cut into 4 parts of equal heights by 3 cuts parallel to its base. What is the ratio of volume of the four parts?

A 1 : 8 : 27 : 70

B 1 : 7 : 19 : 47

C 1 : 7 : 19 : 37

D 1 : 8 : 27 : 64

Answer: C

Question 48

What is the value of $2 \sin 15^\circ \cos 15^\circ - 4 \sin^3 15^\circ \cos 15^\circ$?

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

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

C $\frac{\sqrt{3}}{4}$

D $\frac{1}{2}$

Answer: C

Question 49

If $\sin x = \frac{1}{2}$ and $\sin y = \frac{2}{3}$, then what is the value of $\left[\frac{(6 \cos^2 x - 4 \cos^4 x)}{(18 \cos^2 y - 27 \cos^4 y)} \right]$

A $\frac{27}{20}$

B $\frac{15}{14}$

C $\frac{25}{21}$

D $\frac{17}{14}$

Answer: A

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Question 50

What is the value of $\cos 15^\circ + \cos 105^\circ$?

A $\sqrt{3}$

B $\frac{1}{\sqrt{2}}$

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

D $\frac{1}{\sqrt{3}}$

Answer: B

Question 51

If $\sin(A - B) = \frac{1}{2}$ and $\cos(A + B) = \frac{1}{2}$, then what is the value of $\sin A \cos A + \sin^2 A \sin B \cos B + \cos^3 A \cos B \tan A$?

A $\frac{1}{2}$

B $\frac{3}{4}$

C $\frac{1}{4}$

D $\frac{3}{2}$

Answer: B

Question 52

What is the value of $\cos(90 + 75^\circ)$?

A $2 + \sqrt{3}$

B $-2 - \sqrt{3}$

C $\sqrt{3} + 1$

D $-\sqrt{3} - 1$

Answer: A

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Question 53

If $(A + B + C) = 90^\circ$, then what is the value of $\sin\left(\frac{A}{2}\right) \sin\left[\frac{(180-B-C)}{2}\right] + \cos\left(\frac{A}{2}\right) \sin\left(\frac{B+C}{2}\right)$?

A $\frac{1}{2}$

B 1

C $\frac{1}{\sqrt{2}}$

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

Answer: C

Question 54

What is the value of $\cot(90 - x) \sin^4(90 - x) + \cot(180 - x) \sin^4(180 - x)$?

- A $\frac{(\cos 4x)}{4}$
- B $\frac{(\sin^2 2x)}{2}$
- C $\frac{(\cos^2 2x)}{2}$
- D $\frac{(\sin 4x)}{4}$

Answer: D

Question 55

A flag of height 4 metres is standing on the top of a building. The angle of elevation of the top of the flag from a point X is 45° and the angle of elevation of the top of building from X is 30° . Point X is on the ground level. What is the height (in metres) of the building?

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

Answer: B

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Question 56

Height of a tower is 120 metres. The angle of elevation of the top of tower from a point B is 75° . Point B is on the ground level. What is the distance (in metres) of point B from the base of tower?

- A $120(2 - \sqrt{3})$
- B $180(3 - \sqrt{3})$
- C $180(\sqrt{3} - 1)$
- D $150(\sqrt{3} - 1)$

Answer: A

Question 57

Mohit is standing at some distance from a 60 meters tall building. Mohit is 1.8 meters tall. When Mohit walks towards the building, then the angle of elevation from his head becomes 60° from 45° . How much distance (in metres) Mohit covered towards the building?

- A $18.6(4 - \sqrt{3})$
- B $58.2 - 24.6\sqrt{3}$
- C $19.4(\sqrt{3} + 1)$
- D $19.4(3 - \sqrt{3})$

Answer: D

Instructions

The table given below shows the ratio of cars and Bikes manufactured by 5 different companies. The table also shows the ratio of three different types of cars C1, C2 and C3 and three different types of bikes B1, B2 and B3 manufactured by these 5 different companies. Total numbers of car and bikes together manufactured by D, E, F, G and H are 300000, 280000, 320000, 400000 and 480000 respectively.

Company	Car : Bike	C1 : C2 : C3	B1 : B2 : B3
D	1:02	2:03:05	2:02:01
E	3:01	1:01:01	2:03:02
F	1:01	2:01:01	1:01:02
G	3:01	2:03:01	1:02:02
H	1:02	1:02:01	2:01:05

Question 58

Total number of bikes manufactured by company D is what percentage of total number of cars of type C1 manufacture by company G?

- A 50
- B 100
- C 200
- D 150

Answer: C

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Question 59

What is the average of the total number of cars of type C1 manufactured by the given 5 companies?

- A 58000
- B 60000
- C 56000
- D 62000

Answer: D

Question 60

What is the difference between the total number of C3 type car manufactured by company E and G together and the number of bikes of type B1 manufactured by company H?

- A 44000
- B 40000
- C 48000
- D 42000

Answer: B

Question 61

H = Total number of B2 type bike manufactured by all the companies.

R = Total number of C1 type car manufactured by company F, G and D together.

What is the value of H/R?

- A** 0.625
- B** 1.35
- C** 1.15
- D** None of these

Answer: C

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Question 62

A = Total number of cars manufactured by all the companies.

K = Difference between the number of C3 type cars manufactured by company H and the number of B3 type bike manufactured by company E.

What is the value of A : K?

- A** 91 : 2
- B** 93 : 2
- C** 181 : 4
- D** 185 : 4

Answer: B

Instructions

For the following questions answer them individually

Question 63

How many litres of water should be added to a 7.5 litre mixture of acid and water containing acid and water in the ratio of 1 : 2 such that the resultant mixture has 20% acid in it?

- A** 10
- B** 2.5
- C** 7.5
- D** 5

Answer: D

Question 64

In what ratio should cement costing Rs 250 per bag be mixed with cement costing Rs 325 per bag so that the cost of the mixture is Rs 300 per bag. (A bag of cement is 50 kg).

- A** 1 : 2
- B** 2 : 1

C 3 : 2

D 2 : 3

Answer: A

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Question 65

A started a trading firm by investing Rs 10 lakhs. After 4 months, B joined the business by investing Rs 15 lakhs then 2 months after B joined C too joined them by investing Rs 20 lakhs. 1 year after A started the business they made Rs 6,00,000 in profit. What is C's share of the profit (in Rs)?

A 2,00,000

B 1,00,000

C 1,50,000

D 3,00,000

Answer: A

Question 66

A and B started a partnership business investing in the ratio of 2 : 5. C joined them after 3 months with an amount equal to $\frac{4}{5}$ th of B. What was their profit (in Rs) at the end of the year if A got Rs 16,800 as his share?

A 56000

B 100800

C 84000

D 117600

Answer: C

Question 67

Working alone A can do a work in 72 days and B in 90 days. If they work on it together for 10 days, then what fraction of work is left?

A $\frac{1}{4}$

B $\frac{3}{5}$

C $\frac{1}{5}$

D $\frac{3}{4}$

Answer: D

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Question 68

A, B and C together can build a wall in 12 days. C is four times as productive as B and A alone can build the wall in 48 days. In how many days A and B working together can build the wall?

- A 20
- B 30
- C 80
- D 40

Answer: B

Question 69

Working together A and B can do a job in 36 days, B and C in 10 days and all three together in 9 days. In how many days can B alone do the job?

- A 90
- B 30
- C 24
- D 60

Answer: D

Question 70

A can do $\frac{1}{5}$ of a job in 10 days, B can do $\frac{1}{3}$ of the job in 25 days. In how many days can they do half of the job working together?

- A 30
- B 45
- C 15
- D 20

Answer: C

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Question 71

1 bar of chocolate costs Rs 80 but a box containing 6 bars of the same chocolate costs Rs 400. What is the effective discount (in %) on the box?

- A 20
- B 16.67
- C 25
- D 15

Answer: B

Question 72

15% discount is offered on a shirt marked at Rs 1200. But the shirt is sold at Rs 918 after giving a further cash discount. How much is this cash discount (in %)?

- A 10
- B 12
- C 5
- D 8

Answer: A

Question 73

A retailer marks up his goods by 30% and offers 15% discount. What will be the selling price (in Rs) of an item sold by the retailer if its cost to the retailer is Rs 1,000?

- A 1050
- B 1105
- C 805
- D 1225

Answer: B

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Question 74

The selling price of a smartphone is Rs 9,600 if the discount on it is 20%. What would be the selling price (in Rs) of the smartphone if the discount on it was 25%?

- A 10240
- B 7680
- C 1200
- D 9000

Answer: D

Question 75

The wages of three labourers A, B and C are in the ratio 10:12:15. As wage is increased in the ratio 5:6, B's wage is increased in the ratio 3:4 and C's wage is increased in the ratio 3:5. The new ratio of the wages of A:B:C is

- A 15 : 18 : 20
- B 12 : 16 : 25
- C 6 : 7 : 9
- D 8 : 6 : 5

Answer: B

Question 76

The ratio of present ages of Ajay and Vijay is 2:3. 4 years ago the ratio of their ages was 3:5. What is Vijay's present age (in years)?

- A 16
- B 8
- C 32
- D 24

Answer: D

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Question 77

If $12A = 16B = 15C$; find $A : B : C$.

- A 12 : 16 : 15
- B 15 : 16 : 12
- C 20 : 15 : 16
- D 16 : 15 : 20

Answer: C

Question 78

Find the third proportional to 16 and 20?

- A 24
- B 25
- C 32
- D 40

Answer: B

Question 79

Find the number of students who took an exam if the ratio of those who passed to those who failed in the exam was 10 : 3. If 40 more students had taken the exam and 10 less had failed, then the ratio of those who passed to those who failed in the exam would have been 5 : 1.

- A 200
- B 250
- C 300
- D 260

Answer: D

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Question 80

The ratio of the bank balance of three brothers A, B and C is 10 : 12 : 5. B transfers Rs 60,000 from his account to C's. The new ratio of the bank balances becomes 10 : 9 : 8. What is the bank balance of A (in Rs)?

- A 100000
- B 200000
- C 300000
- D 400000

Answer: B

Question 81

In a set of three numbers, the average of first two numbers is 21, the average of the last two numbers is 24, and the average of the first and the last numbers is 15. What is the average of three numbers?

- A 20
- B 60
- C 25
- D 18

Answer: A

Question 82

In a club there are 12 wrestlers. When a wrestler whose weight is 90 kg leaves the club, he is replaced by a new wrestler then the average weight of this 12 member club increases by 0.75 kg. What is the weight (in kg) of the new wrestler who joined the club?

- A 108
- B 99
- C 112
- D 100

Answer: B

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Question 83

A zoo has an average of 500 visitors on Sundays and 200 on other days. The average number of visitors per day in a month of 30 days beginning with a Sunday is:

- A 225
- B 275

C 300

D 250

Answer: D

Question 84

The average of 35 consecutive even numbers is 44. Find the smallest number.

A 8

B 12

C 10

D 14

Answer: C

Question 85

If a shopkeeper sells a mixer at Rs 11,400 then he suffers a loss of 5%. At what price (in Rs) should he sell the mixer to gain 10%?

A 9845

B 10909

C 13200

D 11913

Answer: C

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Question 86

A grain trader has 100 bags of rice. He sold some bags at 10% profit and rest at 20% profit. His overall profit on selling these 100 bags was 14%. How many bags did he sell at 20% profit?

A 40

B 50

C 60

D 70

Answer: A

Question 87

By selling 21 pots at Rs 2,520, there is a loss equal to the cost price of 3 pots. Find the cost price (in Rs) of each pot.

A 140

B 150

C 160

D 180

Answer: A

Question 88

The profit margin on a sofa set is 100%. If the cost price of the sofa set falls by 20% then what will be the new profit margin (in %)?

A 150

B 120

C 200

D 180

Answer: A

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Question 89

150% of 0.05% of x is 75. Find x.

A 1,00,000

B 75000

C 1,25,000

D 1,50,000

Answer: A

Question 90

A student multiplied a number by $\frac{4}{5}$ instead of $\frac{5}{4}$. What is the percentage error in the calculation?

A 16

B 25

C 36

D 20

Answer: C

Question 91

Elections were held in a society to elect a chairman. There were only two candidates A and B. Candidate B got 25% less votes than candidate A. The number of members who did not cast the vote was same as the number of votes that candidate B got. By how many votes did A win if the society had 20,000 members.

A 6000

B 4000

C 8000

D 2000

Answer: D

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Question 92

250% of $a = b$, then $b\%$ of 250 is the same as $a\%$ of

A 625

B 1000

C 100

D 6250

Answer: A

Question 93

A bullet shoots 500 m in 0.2 seconds. What is its speed in km/hr?

A 1000

B 900

C 100

D 9000

Answer: D

Question 94

A taxi goes from City A to City B at an average speed of 84 km/hr. In the return journey due to traffic the average speed of the taxi falls by 24 km/hr. Find the average speed of the taxi (in km/hr) for the total journey.

A 72

B 75

C 70

D 68

Answer: C

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Question 95

A jogger covered a certain distance at some speed. Had he moved 3 km/hr faster, he would have taken 20 minutes less. If he had moved 1 km/hr slower, he would have taken 10 minutes more. What is the distance (in km) that he jogged?

A 9

B 10

C 12

D 8

Answer: C

Question 96

Ramesh travels by bus from city A to city B at an average speed of 44 km/hr. Suresh travels by taxi from city A to city B at an average speed of 77 km/hr and takes 3 hours lesser than time taken by Ramesh. What is the distance (in km) between the two cities?

A 363

B 308

C 280

D 336

Answer: B

Question 97

In 4 years at simple interest the principal increases by 12%. Calculate the amount (in Rs) received at the end of 2 years on Rs 20,000 at the same rate if compounded annually?

A 21632

B 21218

C 22472

D 22400

Answer: B

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Question 98

Find the difference (in Rs) in the interest earned on Rs 10,00,000 at 10% in 1 year compounded annually and semi-annually.

A 250

B 1000

C 100

D 2500

Answer: D

Question 99

A bank gives Rs 25,000 on a saving a certain principal in 2 years at 8% rate of interest. How much will the bank give (in Rs) on the same principal in 4 years at the same rate of interest compounded annually?

A 27000

B 29000

C 29160

D 27080

Answer: C

Question 100

Find the rate of interest (in %) if simple interest earned on a certain sum for the 3 years is Rs 900 and compound interest earned in 2 years is Rs 636?

A 12

B 10

C 9

D 8

Answer: A

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