In a race of 600 m, A can beat B by 30 m and in a race of 500 m, B can beat C by 25 m. By how many metres will A beat C in a race of 400 m?	of
○ 59 m	
○ 39 m	
○ 49 m	
○ 55 m	
Question 2	1 Point \ \ \ \ \ \ \ \ \
A boat moves upstream at the rate of 1 km in 10 minutes and downstream at the rate of 1 km in 6 minutes. The speed of the current is ?	
○ 1 km/hr	
○ 1.5 km/hr	
○ 2.5 km/hr	
○ 2 km/hr	
Question 3*	Да
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Question 4	1 Point \ \ \ \ \ \
A can cover a certain distance in 84 min by covering 2/3rd of distance at 4 km/h and the rest at 5 km/h. Find the total distance.	
○ 8 km	
○ 9 km	
○ 6 km	
○ 15 km	
Question 5	1 Point \ \ \
A sum of Rs. 12000 deposited at compound interest becomes doubles after 5 years. After 20 years it will become?	
O 124000	
96000	
O 192000	
O 120000	
Question 6	1 Point \ \ \ \ \ \

AutoProctor: Socratease Quiz The distance between two station A and B is 220 km. A train leaves A toward B at an average speed of 80 km/hr. after half an hour another train leaves B toward A at an average speed at 100 km/hr. the distance of the point of two train meet, from A is? 140 km 150 km 130 km 120 km **Question** 7

A certain distance is covered at a certain speed. If half of this distance is covered in double the time, the ratio of the two speed is?

 \bigcirc 2:1

1:4

1:2

4:1

Question 8

For every 4 leaps taken by a dog, a cat takes 5 leaps in the same time. But distance covered in 3 leaps of dog is same as that of 4 leaps of cat. Then what is the ratio of speed of dog and cat?

12:11

- **15**:14
- O 16:15
- 0 10:9

Point

The simple interest on a sum of money at 10% per annum for 6 year is half the sum. Then, the sum is ?

- Rs.4000
- Not possible
- Rs.5000
- O Rs.6000

Question 10

Point



A car is moving with the speed of 47.52km/hr and the radius of the wheel of car is 21 cm. Calculate the approximate number of revolutions made by the wheel in one minute.

- 300 rpm
- 200 rpm
- 250 rpm
- **○** 600 rpm

Question 11	1 Point	ДG	
The radius of a wheel is 22.4 cm. What is the distance covered by the wheel in making 500 resolutions.			
O 807			
O 754			
O 787			
704			
Question 12	1 Point		
A runs 1% times as fast as B. If A gives B a start of 30 m, how far must the winning post be, so that A and B reach it at the same time?			
○ 25 m			
○ 45 m			
○ 30 m			
○ 15 m			
Question 13	1 Point	Дធ	

The difference between simple interest and compound interest on Rs. 600 for 1 years at 10% per annum, reckoned half yearly is ?

O nil

Rs.1.50

Rs.4.40

• Rs.6.60

Question 14

1 Point

150 meter long train takes 10 second two pass a man who is going in same direction at the speed of 2 km/hr . What is the speed of the train

84 km/hr

o 56 km/hr

○ 52 km/hr

None

Question 15





The difference between simple interest and compound interest at the same rate for Rs. 5000 for 2 years is Rs. 72. The rate of interest is ?

8%

O 10%

12%

()	5	%

Point \

The side of a rhombus is 13m. If one of its diagonal is 24m. Find the area of the rhombus.

- 120 m²
- O 200 m^2
- 125 m^2
- O 130 m^2

Question 17





Two stations A and B are 110 kms apart on a straight line. One train start from A at 7 a.m. and travels towards B at 20 km per hour speed. Another train starts from B at 8 a.m. and travels towards A at a speed of 25 km per hour. At what time will they meet?

- 9 am
- None
- 10 am
- 8 am

Question 18	1 Point	Да
A runs 1% times as fast as B. If A gives B a start of 30 m, how far must the winning post be, so that A and B reach it at the same time?		
○ 75 m		
○ 69 m		
○ 70 m		
○ 52 m		
Question 19	1 Point	Дa
If the perimeter of a semi-circle is 72 cm. What will be the area of that semi-circle?		
○ 106 cm^2		
○ 308 cm ²		
○ 206 cm^2		
○ 300 cm^2		
Question 20	1 Point	Да

The radius of the circle is equal to seven - ninth of the side of the square. The area of the circle is 9856 sq cm. Find the perimeter of a

square?

6/27	7/23, 5:	298 cm	AutoProctor: Socratease Quiz
	\bigcirc	288 cm	
	\bigcirc	208 cm	
	0	258 cm	
	Van	tion 21 dana invested an amount of ₹ 8000 in a fixed deposit scheme for 2 yr a dana get on maturity of the fixed deposit?	t the rate of 5% pa compound interest. How much amount will
	\bigcirc	8000	
	\bigcirc	8800	
	0	8820	
	0	8888	
	Oues	tion 22	

 \bigcirc 3:4

3:8

9:16

If the volume of two cubes are in the ratio 27:64 and then the ratio of their total surface area is?

27:64

Question 23

The length and breadth of a rectangle are in the ratio of 9:5. When the sides of the rectangle are extended on each side by 5 m the ratio of length to breadth becomes 5:3. What is the area of the original rectangle?

1160 sq.cm

1045 sq.cm

1125 sq.cm

1565 sq.cm

Question 24

If a train runs at 5/6 of its original speed, then it reaches the station 10 min late. Then find out the usual time taken by train to cover the distance.

45 mins

55 mins

40 mins

50 mins





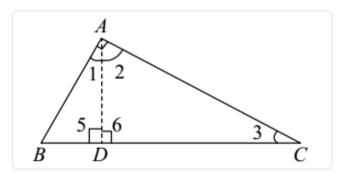
Area of a square is equal to the area of a rectangle. The ratio of length and breadth of the rectangle is 16:9 then find the perimeter of the square if the perimeter of the rectangle is 100 m.

- O 24 m
- 48 m
- 96 m
- 144 m

Question 26







In a right angled Δ ABC, Right angled at A, AD \perp BC. Then :

- \bigcirc AD² = BD × AB
- \bigcirc AD²= CD × AC

 \bigcirc AD² = AB × AC

Question 27

nt 🔲 🤇

A sum was put at simple interest at a certain rate for 2 years . Had it been put at 3% higher rate, it would have fetched Rs 300 more. The sum is

- Rs.5000
- Rs.6000
- O Rs.7000
- None

Question 28



41

ABCD is a square, F is mid point of AB and E is a point on BC such that BE is one-third of BC. If area of Δ FBE = 108 m2, then the length of AC is:

- \circ 36 $\sqrt{2}$ m
- \bigcirc 63 $\sqrt{2}$ m
- O 63 m
- \bigcirc 72 $\sqrt{2}$ m

int \

X and Y are two station 500 km apart. A train start from X and moves toward Y at 20 km/hr another train station from Y at the same times and moves toward X at 30 km/hr. How far from X will they cross each other?

- 30 km
- 200 km
- 120 km
- 40 km

Question 30





If the interest of a certain sum for the first year at 8% p.a. compound interest is Rs. 48. What will be the interest for the second years?

- Rs.58.60
- Rs.53.04
- Rs.52.55
- Rs.51.84

Question 31

1 Point



The current of a stream runs at the rate of 4 km/hr. A boat goes 6 km and back to the starting point in 2 hours. The speed of the boat in still water is ?

○ 6 km/hr	
○ 6.8 km/hr	
○ 8 km/hr	
○ 7.5 km/hr	
Question 32	Point DG
A bullock cart has to cover a distance of 80 km in 10 h. If it covers half of the journey in 3/5th time, what should be its speed to cover the remaining distance in the left time?	
○ 5 km/hr	
○ 15 km/hr	
○ 10 km/hr	
○ 18 km/hr	
Question 33	Point DS
A loan was repaid in two annual instalment of ₹ 1089 each. If the rate of interest be 10% per annum compounded annually, the sum	
borrowed was ?	
O 1860	

1890

- O 1850
- O 1840



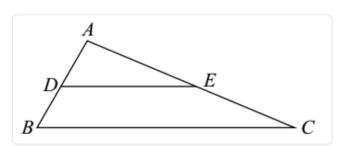
A man invested 1/3 of his capital at 7%, 1/4 at 8% and remainder at 10%. If his annual income is Rs. 561, the capital is ?

- O Rs.5400
- Rs.6000
- O Rs.7200
- O Rs.6600

Question 35







In the given figure, DE \parallel BC and DE : BC = 3 : 5 the ratio of the areas of \triangle ADE and the trapezium BCED.

9/25

○ 45 m

○ 50 m

90 m

30 m

Question 38 How many tiles whose length and breadth are 12 cm and 5 cm respectively will be needed to fit in a rectangular region whose length and breadth are respectively 144 cm and 100 cm? 160 240 360 480 Question 39* **DEPARTMENT** Multiple options may be correct EEE **OTHERS CIVIL MECH ECE**

Question 40

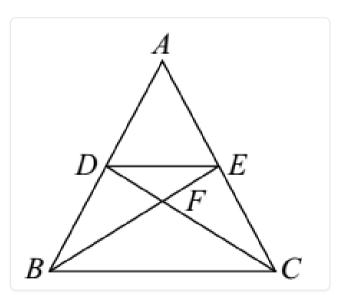
A loan was repaid in two annual instalments of Rs. 121 each. if the rate of interest be 10% per annum. compounded annually, the sum borrowed was ?

- Rs.210
- Rs.280
- O Rs.200
- O Rs.217

Question 41







In the given figure DE||BC and AD : DB = 5 : 4, Then $ar(\Delta DFE)/ar(\Delta CFB)$

O 25/16

Question 44*

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