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| Started on | Sunday, 21 January 2024, 4:14 PM |
| State | Finished |
| Completed on | Sunday, 21 January 2024, 5:14 PM |
| Time taken | 1 hour |
| Grade | 10.00 out of 60.00 (16.67%) |

Question 1

Correct

Mark 1.00 out of 1.00

🚩 Flag question

A + B means A is the father of B, A - B means A is the wife of B, A x B means A is the brother of B, A / B means A is the daughter of B.
If P / R + S + Q, which of the following is true ?

Select one:

- ☒ a. P is the aunt of Q
- ☐ b. P is the daughter of Q
- ☐ c. P is the mother of Q
- ☐ d. Q is the aunt of P

The correct answer is: P is the aunt of Q

Question 2

Not answered

Marked out of 1.00

🚩 Flag question

A earns 25% more than B. C earns 25% more than A. A earns 20% more than D. E earns 20% more than A. A, B, C, D, and E earn integer amounts less than Rs. 100. What is the total amount earned by all five of them put together?

Select one:

- ☐ a. Rs. 305
- ☐ b. Rs. 300
- ☐ c. Rs. 480
- ☐ d. Rs. 245

The correct answer is: Rs. 305

Question 3

Incorrect

Mark 0.00 out of 1.00

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a is x % of b, b is x% more than a. Find x.

Select one:

- ☐ a. 50%
- ☒ b. 75%
- ☐ c. 62%

☐ d. 37%

The correct answer is: 62%

Question **4**

Not answered

Marked out of 1.00

🚩 Flag question

A is x% less than B, A is y% less than C. C is k% more than B. Express k in terms of x and y.

Select one:

- ☐ a. $(y-x)100/100+y$
- ☐ b. $(y-x)100/100-y$
- ☐ c. $(y+x)100/100-y$
- ☐ d. $(y-x)100/100-x$

The correct answer is: $(y-x)100/100-y$

Question **5**

Not answered

Marked out of 1.00

🚩 Flag question

A man covered a certain distance at some speed. Had he moved 3 kmph faster, he would have taken 40 minutes less. If he had moved 2 kmph slower, he would have taken 40 minutes more. The distance (in km) is :

Select one:

- ☐ a. 40 km
- ☐ b. $36\frac{2}{3}$ km
- ☐ c. 35 km

The correct answer is: 40 km

Question **6**

Not answered

Marked out of 1.00

🚩 Flag question

A solid cube made of steel is melted and recast such that its length, breadth and height changes as +10%, +10%, -20%. What is the percentage change in surface area of this cube?

Select one:

- ☐ a. No Change
- ☐ b. +2%
- ☐ c. +1%
- ☐ d. -1%

The correct answer is: -1%

Question **7**

Not answered

Marked out of 1.00

🚩 Flag question

A two digit number ab is 60% of x . The two-digit number formed by reversing the digits of ab is 60% more than x . Find x .

Select one:

- ☐ a. 72
- ☐ b. 45
- ☐ c. 63
- ☐ d. 54

The correct answer is: 45

Question **8**

Not answered

Marked out of 1.00

🚩 Flag question

B5D means B is the father of D.

B9D means B is the sister of D.

B4D means B is the brother of D.

B3D means B is the wife of D.

Which of the following means F is the mother of K?

Select one:

- ☐ a. F5M3K
- ☐ b. F3M5N3K
- ☐ c. F3M5K
- ☐ d. F9M4N3K

The correct answer is: F3M5K

Question **9**

Not answered

Marked out of 1.00

🚩 Flag question

Class B has 50% more students than class A. Number of girls in class A is equal to number of boys in class B. The percentage of girls is the same in both classes. What percentage of the student group are boys?

Select one:

- ☐ a. 25%
- ☐ b. 40%
- ☐ c. 60%
- ☐ d. 33.33%

The correct answer is: 40%

Question **10**

Not answered

Marked out of 1.00

🚩 Flag question

In an examination, 35% of students failed in quants and 42% of students failed in verbal while 14% failed in both the topics. If 222 students passed in both the topics, how many students appeared to write the examination?

Select one:

- ☐ a. 700
- ☐ b. 500
- ☐ c. 600
- ☐ d. 800

The correct answer is: 600

Question **11**

Not answered

Marked out of 1.00

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Krishna borrows Rs. 45K from a bank at 10% compound interet. He repays it in three annual installments that are in arithmetic progression. He ends up paying 54K totally. How much did he pay in year 1?

Select one:

- ☐ a. Rs. 19,500
- ☐ b. Rs. 18,000
- ☐ c. Rs. 21,000
- ☐ d. Rs. 16,500

The correct answer is: Rs. 19,500

Question **12**

Not answered

Marked out of 1.00

🚩 Flag question

On a certain sum of money, compound interest earned at the end of three years = Rs. 1456. Compound interest at the end of two years is Rs. 880. Compute the principal invested.

Select one:

- ☐ a. Rs. 2,400
- ☐ b. Rs. 2,000
- ☐ c. Rs. 1,600
- ☐ d. Rs. 2,800

The correct answer is: Rs. 2,000

Question **13**

Correct

Mark 1.00 out of 1.00

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Pointing out to a lady, Raja said , "She is the daughter of the woman who is the mother of the husband of my mother". Who is the lady to Raja ?

Select one:

- ☐ a. Sister
- ☒ b. Aunt
- ☐ c. Grand daughter
- ☐ d. Daughter

The correct answer is: Aunt

Question **14**

Not answered

Marked out of 1.00

🚩 Flag question

Ram earns an interest of 600 over two years on a simple interest basis. On a compound interest basis, at the same interest rate, he would earn Rs. 630. What is the rate of interest?

Select one:

- ☐ a. 30%
- ☐ b. 5%
- ☐ c. 20%
- ☐ d. 10%

The correct answer is: 10%

Question **15**

Not answered

Marked out of 1.00

🚩 Flag question

Ram sells onions in the streets of Chandni Chowk. Due to recent shortfall in the supply of onions, he doubles his selling price despite the cost price remains same for him due to a fixed price contract. He realizes that his profit have tripled. Find the original profit percent.

Select one:

- ☐ a. $105\frac{1}{3}\%$
- ☐ b. $200\frac{2}{3}\%$
- ☐ c. 100%
- ☐ d. 120%

The correct answer is: 100%

Question **16**

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

120 workers can complete a piece of work in 85 days and each worker works 10 hour/day. All workers start the work, after 10 days all workers go on strike. Due to strike, work stopped for 25 days. How many more workers should be employed to finish the remaining work on time if each worker works 8 hours/day.

Select one:

- ☐ 100
- ☐ 105
- ☒ 95
- ☐ 115

Your answer is incorrect.

Total work=men x days x hours

=> total work = 120 x 85 x 10

Now, 120 workers do work for 10 days working 10 hours / day then go on strike therefore work done by them in 10 days = 120 x 10 x 10

Work stopped for 25 days, therefore remaining days = 85 - 10 - 25 = 50

We need to find the no. of workers required to complete the work in 50 days working 8 hours / day.

ACCORDING TO THE QUESTION, (120 x 10 x 10) + (M x 50 x 8) = 120 x 85 x 10

=> M = 225


Extra workers required = 225 - 120 = 105

The correct answer is: 105

Question **17**

Incorrect

Mark 0.00 out of 1.00

 Flag question

Evaluate (313 x 313 + 287x 287).

Select one:

- ☐ 180238
- ☒ 180328
- ☐ 180228
- ☐ 180338

Your answer is incorrect.

Using formula $a^2 + b^2 = 1/2 [(a+b)^2 + (a-b)^2]$

$(313)^2 + (287)^2 = 1/2 [(313 + 287)^2 + (313 - 287)^2]$

$= 1/2 [(600)^2 + (26)^2]$

$= 1/2 [360000 + 676]$


$= 180338$

The correct answer is: 180338

Question **18**

Correct

Mark 1.00 out of 1.00

 Flag question

What least number must be added to 4000 to obtain a number exactly divisible by 17?

Select one:

- ☐ 15
- ☐ 14

- ☐ 13
- ☒ 12 ☐

Your answer is correct.

On dividing 4000 by 17, we get 5 as the remainder.
Therefore, number to be added = $17 - 5 = 12$.

The correct answer is: 12

Question **19**

Incorrect

Mark 0.00 out of 1.00

🚩 Flag question

If 40% x equal 50% of y, then y : x is

Select one:

- ☐ 4:5
- ☒ 5:4 ☐
- ☐ 2:3
- ☐ 3:2

Your answer is incorrect.

$40x/100 = 50y/100$
 $y/x = 40/100 * 100/50$
 $y/x = 4 : 5$

The correct answer is: 4:5

Question **20**

Not answered

Marked out of 1.00

🚩 Flag question

A shopkeeper earns 25% profit on goods by selling at 10% discount. Find the gain percentage when discount is 20%.

Select one:

- ☐ 11 1/9%
- ☐ 9 1/11%
- ☐ 9 2/11%
- ☐ 11 2/9%

Your answer is incorrect.

Let C.P = 100
 $S.P = 25*100/100 + 100 = 125$
And marked price = $125*100/(100-10)$
 $= 125*100/90 = 1250/9$
New S.P = $0.80*1250/9 = 125*8/9$
Gain = $125*8/9 - 100$
 $= (1000 - 900)/9 = 100/9$
And Gain% = $100*100/(9*100) = 100/9 \% = 11\frac{1}{9}\%$

The correct answer is: 11 1/9%

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