Talent Transformation (2019)

Started on	Tuesday, 14 August 2018, 10:01 AM
State	Finished
Completed on	Tuesday, 14 August 2018, 10:36 AM
Time taken	35 mins
Marks	5.67/20.00
Grade	**2.83** out of 10.00 (**28**%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

What is the side of the largest possible regular octagon that can be cut out of a square of side 1 cm?

Select one:

- a. $\sqrt{2}$-1 cm ✓
- b. $\frac{1}{\sqrt{2}+2}$ cm
- c. $\frac{2}{\sqrt{2}+1}$ cm
- d. $\frac{1}{\sqrt{2}-1}$ cm

The correct answer is: $\sqrt{2}$-1 cm

Question 2

Not answered

Marked out of 1.00

Flag question

In a class of 108 students studying Maths, English or both; boys and girls are in the ratio of 5: 4. The number of boys studying only Maths is 80% of the girls studying only Maths and the number of boys studying only English is twice that of the girls studying only English. The total number of boys studying Maths is half of the total number of boys in the class. Number of girls studying only English is 60% of the girls studying only Maths. What is the number of students studying both Maths and English?

Select one:

- a. 20
- b. 18
- c. 8
- d. 10

The correct answer is: 18

Question 3

Not answered

Marked out of 1.00

Flag question

The no. of ways in which a selection of 4 letters can be made from the letters of the word INFINITE.

Select one:

- a. 37
- b. 32
- c. 22
- d. 15

The correct answer is: 22

Question 4

Correct

Mark 1.00 out of 1.00

Flag question

A, B, C run around a circular track of length 300 m; A and B with speed of 10 m/sec and 12 m/sec in the same direction and C in an opposite direction at 15 m/sec. If all three of them start at the same time. Then which one is correct

Select one:

- a. A meets C more often than B does in a given time.
- b. Depends on the time period under consideration.
- c. B meets C more often than A does in a given time. ✓
- d. A and C met as frequently as B and C.

The correct answer is: B meets C more often than A does in a given time.

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

A merchant buys 20 kg of wheat of Rs.30 per kg and40 kg wheat at Rs.25 per kg. He mixed them and sells one third of the mixture at Rs.26 per kg. The price at which the merchant should sell the remaining mixture, So that he may earn a profit of 25 % in his whole outlay is

Select one:

- a. Rs.37 ✓
- b. Rs.40
- c. Rs.360
- d. Rs.30

The correct answer is: Rs.37

Question 6

Correct

Mark 1.00 out of 1.00

Flag question

Five people Pradeep,Qutub,Raj,Sandy and Tej are in a row. Raj sits to the immediate right of Tej. If Pradeep and Qutub have only two persons sitting between them, which of following must be true?

Select one:

- a. Qutub is sitting beside Pradeep.
- b. Sandy must be at one of ends of the row. ✓
- c. Tej or Raj must be at one extreme end of the row.
- d. Pradeep is at one extreme end of row.

The correct answer is: Sandy must be at one of ends of the row.

Question 7

Not answered

Marked out of 1.00

Flag question

Given the word “Parrot”. Find the 20th word in dictionary order.

Select one:

- a. oparrt
- b. oprart
- c. opartr
- d. oprtta

The correct answer is: oprart

Question 8

Not answered

Marked out of 1.00

Flag question

An intelligence agency forms a code of two distinct digits selected from 0, 1, 2, …… 9 such that the first digit of the code is nonzero. The code, handwritten on a slip, can however potentially create confusion when read upside down – for example, the code 91 may appear as 16. How many codes are there for which no such confusion can arise?

Select one:

- a. 69
- b. 78
- c. 71
- d. 80

The correct answer is: 69

Question 9

Not answered

Marked out of 1.00

Flag question

Find the value of 1+1x1! + (2 × 2!) + (3 × 3!) + … + (100 × 100!)

Select one:

- a. 101!
- b. 100!x100!
- c. 101!+100
- d. 100!+101!

The correct answer is: 101!

Question 10

Correct

Mark 1.00 out of 1.00

Flag question

Sehwag and Ganguly were sharing an apartment and cooked the food by themselves. One day Sehwag made 5 pizzas for himself and Ganguly made 3 for himself. At the time of lunch Tendulkar came in. So all three of them sat together and ate all the pizzas equally. After eating them Tendulkar gave them 8 expensive cricket bats and left. As Ganguly was running out of form he started quarrelling and asked for 4 bats which Sehwag refused to give. Finally David shepherd was called to give the right decision which he did. How many bats Sehwag and Ganguly were given finally?

Select one:

- a. 4 and 4
- b. 6 and 2
- c. 7 and 1 ✓
- d. 5 and 3

The correct answer is: 7 and 1

Question 11

Correct

Mark 1.00 out of 1.00

Flag question

The numbers 0, 1, 2, 3, 4, ... are written consecutively side by side. What is the 488890^{th} digit in the sequence?

Select one:

- a. 1
- b. 4
- c. 0
- d. 8
- e. 9 ✓

The correct answer is: 9

Question 12

Not answered

Marked out of 1.00

Flag question

Find the minimum number of cubes with which one can construct a cube of dimension 25m x 20m x 15m.

Select one:

- a. 12
- b. 17
- c. 25
- d. 20

The correct answer is: 20

Question 13

Not answered

Marked out of 1.00

Flag question

How many numbers are there from 100 to 1200 which are not divisible either by 2, 3, or 5?

Select one:

- a. 295
- b. 293
- c. 286
- d. 287
- e. 294

The correct answer is: 294

Question 14

Not answered

Marked out of 1.00

Flag question

Each family in a locality has at most two adults, and no family has fewer than 3 children. Considering all the families together, there are more adults than boys, more boys than girls, and more girls than families. Then the minimum possible number of families in the locality is

Select one:

- a. 2
- b. 4
- c. 5
- d. 3

The correct answer is: 3

Question 15

Not answered

Marked out of 1.00

Flag question

How many even integers n, where 100 < = n < = 200, are divisible neither by seven nor by nine?

Select one:

- a. 39
- b. 38
- c. 40
- d. 37

The correct answer is: 39

Question 16

Incorrect

Mark -0.33 out of 1.00

Flag question

Consider four digit numbers for which the first two digits are equal and the last two digits are also equal. How many such numbers are perfect squares?

Select one:

- a. 4
- b. 2 ✗
- c. 1
- d. 3

The correct answer is: 1

Question 17

Not answered

Marked out of 1.00

Flag question

Let K be the sum of the squares of 5 consecutive even integers. Which of the following cannot be the final quotient when K is successively divided by 2 and 5?

Select one:

- a. 102
- b. 54
- c. 12
- d. 76

The correct answer is: 12

Question 18

Not answered

Marked out of 1.00

Pipe A and Pipe B can fill an empty cistern in 12 and 15 minutes respectively. Pipe C can empty the full cistern in 18 minutes. If the three pipes are opened in alternate minutes in the order of A, B and C, how soon will the cistern be filled?

Flag question

Select one:

- a. $30\frac{2}{3}$ mins
- b. $30\frac{9}{17}$ mins
- c. $31\frac{13}{17}$ mins
- d. 29 mins

The correct answer is: 29 mins

Question 19

Not answered

Marked out of 1.00

Flag question

All the even numbers in the range 1 – 100 are written on the blackboard. Two players take turns putting the signs '+' and '–' respectively in front of any free number. The first player tries to maximize the sum. What is the resultant sum?

Select one:

- a. 50
- b. 35
- c. 25
- d. 45

The correct answer is: 50

Question 20

Not answered

Marked out of 1.00

Flag question

Starting from 1 if you are asked to write first 172 digits of the natural numbers , which digit you stop at

Select one:

- a. 8
- b. 4
- c. 7
- d. 9

The correct answer is: 8

Finish review

QUIZ NAVIGATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Show one page at a time

Finish review

You are logged in as JEET SAHA 16900215019 (Log out)
ttc2019_2