ALLEN®

Decimals

Test

Time - 1.30 hours   **Maximum Marks - 20**

Important Instructions

- This test contains 20 questions.

- Each question has FOUR options (1), (2), (3) and (4). ONLY ONE of these four options are correct.

- For each question, marks will be awarded in one of the following categories.

  Full Marks : +1   : If only correct answer is given.
  Zero Marks : 0   : If no answer is given.
  Negative Marks   : There is no negative marking.

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1. Subtract the difference of 15.13 and 9.7 from their sum.
  (1) 24.83   (2) 5.43   (3) 5.234   (4) 19.40

2. Which of the following is the greatest decimal?
  (1) 2.9008   (2) 29.8   (3) 29.008   (4) 29.60001

3. Simplify : 15 + 10.25 + 5.125 + 0.1525
  (1) 30.5275   (2) 35.2075   (3) 30.2625   (4) 30.3750

4. Rahul travelled 16 km 25 m by car and 10 km 125 m by bus. Find the total distance covered by him in kilometer.
  (1) 26.250 km   (2) 26.375 km   (3) 26.150 km   (4) 26375 km

5. How many millimeters make 3 metre?
  (1) 30   (2) 300   (3) 3000   (4) 30000

6. Riya purchased a notebook and a box for Rs. 150.25 and Rs. 190.75 from a shop. She gave a 500 Rupee note to the shopkeeper. What amount did she get back?
  (1) Rs. 160   (2) Rs. 159   (3) Rs. 195   (4) Rs. 341

7. 16.37 and 18.97 are
  (1) Like decimal fractions   (2) Unlike decimal fractions
  (3) Equivalent decimal fractions   (4) None Of These

8. 785 paise can be express as Rs. _____.
  (1) 0.785   (2) 7.85   (3) 78.50   (4) 78.5

9. The expanded form of 31.005 is

  (1) $3\times10+1\times1+\dfrac{5}{100}$ (2) $3\times10+1\times1+\dfrac{5}{1000}$

  (3) $3\times100+1\times10+\dfrac{5}{1000}$ (4) $3+1\times1000+\dfrac{5}{1000}$

10. Express 1033m + 428cm in meters

(1) 1461m   (2) 1099.428 m   (3) 1075.8 m   (4) 1037.28 m

11. Rani had Rs. 24.75. She bought one cupcake for Rs. 17.60. How much money does she have now?

(1) Rs. 8.15   (2) Rs. 7.15   (3) Rs. 9.15   (4) Rs. 7.05

12. Write the decimal number for $\dfrac{4090}{1000}$.

(1) 409   (2) 40.9   (3) 4.09   (4) 0.409

13. Solve: $3\dfrac{1}{25}$ = _____

(1) 3.004   (2) 3.4   (3) 3.04   (4) 3.0000

14. Find the place value of the underlined number : 15.90<u>3</u>08

(1) $\dfrac{3}{10}$ (2) $\dfrac{3}{100}$ (3) $\dfrac{3}{10000}$ (4) $\dfrac{3}{1000}$

15. The descending order of the following decimals 3.35, 2.59, 28.1, 6.0, 6.7, 3.5 is

(1) 28.1, 2.59, 6.7, 6.0, 3.5, 3.35   (2) 3.35, 28.1, 6.7, 6.0, 3.5, 2.59

(3) 28.1, 6.7, 6.0, 3.5, 3.35, 2.59   (4) 28.1, 6.0, 6.7, 3.35, 3.5, 2.59

16. Three hundred six and seven hundredth in decimal form can be written as

(1) 306.7   (2) 306.07   (3) 30607   (4) None of these

17. Convert the fraction $\dfrac{5}{7}$ into decimal.

(1) 0.001   (2) 0.714   (3) 0.075   (4) 0.01

18. Compare 345.8 _____ 345.896

(1) >   (2) <   (3) =   (4) All of these

19. Simplify [{(0.67 + 0.007 – 0.034) + 45} – 0.68] + 97

(1) 141.963   (2) 145.894   (3) 151.376   (4) 167.543

20. 0.023 lies between

(1) 0.2 and 0.3   (2) 0.02 and 0.03

(3) 0.03 and 0.029   (4) 0.026 and 0.024

Test Solutions

Answer Key

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

1. **Option (4)**

Sum = 15.13 + 9.7 = 24.83

Difference = 15.13 – 9.7 = 5.43

$\therefore$ Sum – Difference = 24.83 – 5.43 = 19.40

2. **Option (2)**

To compare decimal numbers, we have to convert given decimals into like decimals as follows:

2.9008 = 2.90080,

29.8 = 29.80000,

29.008 = 29.00800,

29.60001 = 29.60001

We get,

2.90080 < 29.00800 < 29.60001< 29.80000

Clearly 29.80000 or 29.8 is the greatest decimal.

3. **Option (1)**

$$\begin{array}{r} 15.00 \\ 10.25 \\ 05.125 \\ +00.1525 \\ \hline 30.5275 \end{array}$$

15.00 + 10.25 + 05.125 + 00.1525 = 30.5275

4. **Option (3)**

Distance travelled by car = 16 km 25 m = 16.025 km

Distance travelled by bus = 10 km 125 m =10.125 km

Total distance travelled = 16.025 + 10.125 = 26.150 km

$\therefore$ Total distance travelled by Rahul = 26.150 km

5. **Option (3)**

We know that 1 m = 1000 mm

So, 3 m = 3 × 1000 mm

3 m = 3000 mm

Therefore, the conversion of 3 metres to millimeter is 3000 mm.

6. **Option (2)**

Money she gave to the shopkeeper =Rs.500

Cost of a notebook = Rs.150.25

Cost of a box = Rs. 190.75

Money she get back =Money she gave to the shopkeeper –Cost of a box – cost of a notebook

=500 – 190.75 – 150.25 = Rs. 159

Hence, the shopkeeper returned her Rs.159

7. **Option (1)**

16.37 and 18.97 are Like decimal fractions.

8. **Option (2)**

We know that, there are 100 paise in 1 rupee

785 paise = $\dfrac{785}{100}$ = Rs. 7.85

9. **Option (2)**

$31.005 = 3 \times 10 + 1 \times 1 + \dfrac{5}{1000}$

10. **Option (4)**

1033 m + 428cm

= 1033 m + $\dfrac{428}{100}$ m $\qquad$ [∵ 1m = 100 cm]

= 1033 m + 4.28 m

= (1033.00 + 4.28) m

= 1037.28 m

11. **Option (2)**

Rani had money = Rs. 24.75

Price of cupcake bought for = Rs. 17.60

∴ Money Rani has now = Rs. 24.75 − Rs. 17.60 = Rs. 7.15

12. **Option (3)**

The decimal number for $\dfrac{4090}{1000}$ = 4.09

13. **Option (3)**

$3\dfrac{1}{25}$ = 3 + 0.04 = 3.04

14. **Option (4)**

In the number 15.90308

3 is at the thousandths place. So, its place value is 3 thousandths or $\dfrac{3}{1000}$

15. **Option (3)**

Descending order : 28.1, 6.7, 6.0, 3.5, 3.35, 2.59

16. **Option (2)**

Three hundred six = 306

Seven hundredth = $\dfrac{7}{100}$ = 0.07

Now, three hundred six and seven hundredth in decimal form can be written as 306.07

17. **Option (2)**

Long division 5 by 7, stopping when the remainder repeats:

```
      0.714285
  7 ) 5.000000
     −49
      10
      −7
       30
      −28
       20
      −14
       60
      −56
       40
      −35
        5
```

$\dfrac{5}{7}$ = 0.714285...... ≈ 0.714

18. **Option (2)**

In given decimals, whole number part is same then, we compare decimal part

345.800 < 345.896

Tenths place also same

So, we have to compare Hundredths part.

0 < 9

⇒ 345.8 < 345.896

19. **Option (1)**

Using BODMAS

[{(0.67 + 0.007 − 0.034) + 45} − 0.68] + 97

= [{(0.677 − 0.034) + 45} − 0.68] + 97

= [{0.643 + 45} − 0.68] + 97

= [45.643 − 0.68] + 97

= 44.963 + 97 = 141.963

20. **Option (2)**

0.023 lies between 0.02 and 0.03.