(Olympiad Comprehensive Question)

QUESTIONS

1. **Arrange the following decimals in ascending order 54.02, 45.1, 24.562, 24.560.**

   (a) 24.560 < 24.562 < 54.02 < 45.1

   (b) 24.560 < 24.562 < 45.1 < 54.02

   (c) 24.562 < 24.560 <45.1 < 54.02

   (d) 24.562 < 45.1 < 24.560 < 54.02

   (e) None of these

2. **A and B are two decimals. If integral part of A is greater than that of B then**

   (a) A > B   (b) A < B

   (c) A = B   (d) All of these

   (e) None of these

3. **X is a decimal which has three decimal places. If the decimal is converted fractional form, what will be the denominator for the resulting fraction?**

   (a) 10   (b) 100

   (c) 1000   (d) 10000

   (e) None of these

4. **Christina: 5.0236 and 0.23564 are unlike fractions. Julia: 0.2356 and 0.0235 are like decimals. Who of the above is correct?**

   (a) Christina   (b) Julia

   (c) Both are correct   (d) Both are incorrect

   (e) None of these

5. **Which one of the following is the correct expanded form for the decimal 40.0235?**

   (a) $4+\dfrac{2}{100}+\dfrac{3}{1000}+\dfrac{5}{10000}$ (b) $40+\dfrac{2}{100}+\dfrac{3}{1000}+\dfrac{5}{10000}$

   (c) $40+\dfrac{2}{10}+\dfrac{3}{100}+\dfrac{5}{1000}$ (d) $400+\dfrac{2}{10}+\dfrac{3}{100}+\dfrac{5}{1000}$

   (e) None of these

6. **A and B are two decimals. When twice of A is subtracted from B we get 543.3202. If value of A is 548.355, find 2(A+B).**

   (a) 2183.3504   (b) 4376.7704

   (c) 2176.7704   (d) 4383.3504

   (e) None of these

7. **Jack selected two decimals 35.41 and 4.5 and multiplied them .The Product is 8.1443. After a while he realized that he mistakenly multiplied 35.41 by other decimal instead of 4.5. Find the other decimal.**

(a) 2.3 (b) 0.23

(c) 0.023 (d) 0.0023

(e) None of these

8. **X is 1459.55 more than Y and 542.31 less than Z. If X + Y = 1545.55. Find the value of X + Y + Z.**

(a) 3690.41 (b) 4590.41

(c) 3590.41 (d) 5590.41

(e) None of these

9. **There are 4562 wheat bags in a godown. If each bag contains 45.6 kg of wheat, find the total amount of wheat in the godown.**

(a) 208027.20kg (b) 20802.72kg

(c) 2080.272kg (d) 208.0272kg

(e) None of these

10. **Find the number which is 4.2456 less than the product of 45.21 and 9.76.**

(a) 437.004 (b) 443.4952

(c) 447.7408 (d) 451.9864

(e) None of these

11. **Write the name of the decimal indicated in the following place value chart.**

Thousands (Th) 1000	Hundreds (H) 100	Tens (T) 10	Ones (0)	Decimal Point	Tenths (T) $\frac{1}{10}$	Hundredths (H) $\frac{1}{100}$	Thousandths (Th) $\frac{1}{1000}$
	2	4	6	.	2	3	5

(a) Two hundred forty six point two ones three tenths five hundredths

(b) Two hundred forty six point two tenths three hundredths five thousandths

(c) Two hundred forty six point two hundredths three thousandths five thousandths

(d) All of these

(e) None of these

12. **Find the place value of 4 in the decimal indicated in the following table.**

Thousands (Th) 1000	Hundreds (H) 100	Tens (T) 10	Ones (0) 1	Decimal Point	Tenths (T) $\frac{1}{10}$	Hundredths (H) $\frac{1}{100}$	Thousandths (Th) $\frac{1}{1000}$
	8	5	6	.	3	5	4

(a) $\dfrac{4}{10}$

(b) $\dfrac{4}{100}$

(c) $\dfrac{4}{1000}$

(d) $\dfrac{4}{10000}$

(e) None of these

13. **Which one of the following is the standard form of the decimal 8 thousandths?**

(a) 8000

(b) 800

(c) $\dfrac{8}{1000}$

(d) $\dfrac{8}{100}$

(e) None of these

14. **Find the decimal places of the decimal which is 456.3215 more than 3565.964.**

(a) One

(b) Two

(c) Three

(d) Four

(e) None of these

15. **Write the decimal part of the decimal which is 345.23 less than the sum of the decimal 675.03 and 5.9632.**

(a) 7632

(b) 8236

(c) 07632

(d) 70632

(e) None of these

16. **Find an equivalent decimal for the decimal which is 252.246 less than 545.003.**

(a) 292.7570

(b) 215.0757

(c) 29.2757

(d) 292.0757

(e) None of these

17. **X is a decimal. When X is converted into fraction, it gives $\frac{25}{4}$. Find the value of X.**

(a) 6.50　　　　　　　　　　　　　　(b) 6.25

(c) 6.35　　　　　　　　　　　　　　(d) 7.25

(e) None of these

18. **X is a decimal. X is 246.32 more than 63.265. Find the integral part of X.**

(a) 390　　　　　　　　　　　　　　(b) 209

(c) 309　　　　　　　　　　　　　　(d) 3011

(e) None of these

19. **Convert the decimal 79.25 into fraction.**

(a) $\frac{317}{4}$　　　　　　　　　　　(b) $\frac{319}{4}$

(c) $\frac{317}{8}$　　　　　　　　　　　(d) $\frac{319}{8}$

(e) None of these

20. **Write the decimal 245.02655 in expanded form.**

(a) $200+40+50+2+\dfrac{6}{1000}+\dfrac{5}{10000}+\dfrac{5}{100000}$

(b) $200+40+5+\dfrac{2}{10}+\dfrac{6}{1000}+\dfrac{5}{10000}+\dfrac{5}{100000}$

(c) $200+40+5+\dfrac{2}{10}+\dfrac{6}{100}+\dfrac{5}{1000}+\dfrac{5}{10000}$

(d) $200+40+5+\dfrac{2}{100}+\dfrac{6}{1000}+\dfrac{5}{10000}+\dfrac{5}{100000}$

(e) None of these

21. **Write the decimal $700+40+\dfrac{5}{100000}$ in standard form.**

(a) 740.5　　　　　　　　　　　　　(b) 740.05

(c) 740.0005　　　　　　　　　　　(d) 740.00005

(e) None of these

22. **Find the greatest decimal from the following.**

45.023, 78.02, 76.93, 80.001, 79.999

(a) 78.02,　　　　　　　　　　　　(b) 80.001

(c) 79.999　　　　　　　　　　　　(d) 76.93

(e) None of these

23. Arrange the following decimals in descending order:

89.0231, 89.3201, 89.3021, 89.0213, 89.3210, 89.3012

(a) 89.0231 > 89.3201 > 89.3021 > 89.0213 > 89.3012 > 89.3210

(b) 89.0231 > 89.3201 > 89.3021 > 89.0213> 89.3210 > 89.3012

(c) 89.3210 > 89.3201 > 89.3012 > 89.3021 > 89.0231 > 89.0213

(d) 89.3210 > 89.3201 > 89.3021 > 89.3012 > 89.0231 > 89.0213

(e) None of these

24. A cyclist takes 4 hours to cover the distance 75 km. Represent the speed of the cyclist into decimal form.

(a) 18.05 km/h   (b) 16.75 km/h

(c) 18.75 km/h   (d) 19.75 km/h

(e) None of these

25. X is a decimal. Place value of 4 in the decimal X is $\dfrac{4}{100}$. Which one of the following places does 4 occupy in the decimal?

(a) Tenths   (b) Hundredths

(c) Thousandths   (d) Ten-thousandths

(e) None of these

26. Where should we insert the decimal point in the numeral 466523 such that place value of 5 in the resulting decimal becomes $\dfrac{5}{10}$?

(a) Between 4 and 6   (b) Between two 6

(c) Between 6 and 5   (d) Between 5 and 2

(e) None of these

27. Find the decimal which is 549.023 less than the sum of 45.36 and 10000.00.

(a) 9496.337   (b) 9497.337

(c) 7496.337   (d) 9796.337

(e) None of these

28. Which one of the following decimals should be subtracted from the sum of 56.326 and 74.2361 such that resulting decimal becomes five times of 7.3201?

(a) 95.9616   (b) 93.9616

(c) 93.9016   (d) 90.9616

(e) None of these

29. Find the decimal which is 54.05 more than the product of 4.037 and 7.5.

(a) 84.0275   (b) 84.3275

(c) 80.3275   (d) 82.3275

(e) None of these

30. John has Rs. 7512 with him. He buys a mobile for Rs. 5000 and a video game for Rs. 445.23. How much money left with him?

(a) Rs. 2230.36   (b) Rs. 2066.77

(c) Rs.1872.35   (d) Rs. 2150.36

(e) None of these

31. Sum of the three decimals is 785.65. If two decimal are 254.022 and 125.36, find the third decimal.

(a) 546.32   (b) 224.256

(c) 540.326   (d) 406.268

(e) None of these

32. X is a decimal/When X is multiplied by 42.36 the product is 245.688. Find X.

(a) 5.8   (b) 8.5

(c) 6.5   (d) 7.8

(e) None of these

33. 45526 kg corn was divided equal by among 32 people. Find the amount each people get?

(a) 1522.6875kg   (b) 1420.6875kg

(c) 1422.6875kg   (d) 1429.6875kg

(e) None of these

34. There are 45000 bags of sugar in a godown. Each bag contains 78.5 kg sugar Find the total amount of sugar in the godown.

(a) 3532400kg   (b) 5450020kg

(c) 5400230 kg   (d) 3532500 kg

(e) None of these

35. A = 225.24, B = 60.25, and C = 174.23. Find the value of 5(A + B) — C.

(a) 1350.22   (b) 1253.22

(c) 1353.11   (d) 1303.22

(e) None of these

36. **Price of 8 kg apple is Rs. 542. Find the price of 15 kg apple.**

(a) Rs. 1016.30   (b) Rs. 1016.25

(c) Rs. 1020.25   (d) Rs. 1015.25

(e) None of these

37. **Find the decimal which Is 78.25 more than five times of 45.7.**

(a) 306.75   (b) 301.75

(c) 402.75   (d) 375.75

(e) None of these

38. **Product of the two decimals is 34006.672. If one of the decimals is 45.2, find the other decimal**

(a) 652.25   (b) 752.36

(c) 902.75   (d) 7875.7035

(e) None of these

39. **A = 54.236 + 85.32, B = 58.36 – 42.05, C = 78.63 × 100, D = 78.54 ÷ 1000. Find the value of A + B + C + D.**

(a) 8018.94454   (b) 7520.3603

(c) 9020.7505   (d) 7875.7035

(e) None of these

40. **Codi buys 3 Mathematics, 2 English, 2 Biology, 1 Chemistry and 5 Physics. How much money Codi has to pay?**

Books	Price
Mathematics	Rs. 540.25
English	Rs. 375.50
Physics	Rs. 378.60
Chemistry	Rs. 475.65
Biology	Rs. 400.12

(a) 5541.64   (b) 5440.70

(c) 5540.64   (d) 5240.64

(e) None of these

ANSWER - KEY

1. B	2. A	3. C	4. C	5. B
6. B	7. B	8. C	9. A	10. A
11. B	12. C	13. C	14. D	15. A
16. A	17. B	18. C	19. A	20. D
21. D	22. B	23. D	24. C	25. B
26. C	27. A	28. B	29. B	30. B
31. D	32. A	33. C	34. D	35. B
36. B	37. A	38. B	39. A	40. C