Multiple Choice Questions (1-20)

Choose the correct answer from the four options given.

Question 1

The fraction which is not equal to 4/5 is:

- (A) 40/50
- (B) 12/15
- (C) 16/20
- (D) 9/15

Solution: (D) 9/15

All the options are simplified as:

- (A) 40/50 = 4/5
- (B) 12/15 = 4/5 (dividing by 3)
- (C) 16/20 = 4/5 (dividing by 4)
- (D) 9/15 = 3/5 (dividing by 3)

Therefore, 3/5 ≠ 4/5

Question 2

The two consecutive integers between which the fraction 5/7 lies are:

- (A) 5 and 6
- (B) 0 and 1
- (C) 5 and 7
- (D) 6 and 7

Solution: (B) 0 and 1

A fraction whose numerator is less than the denominator is called a proper fraction. So, 5/7 = 0.715

Therefore, 5/7 lies between 0 and 1.

Question 3

When 1/4 is written with denominator as 12, its numerator is:

- (A) 3
- (B) 8
- (C) 24
- (D) 12

Solution: (A) 3

(1 × 3)/(4 × 3) = 3/12 Verify: 3/12 = 1/4 (dividing by 3)

Question 4

Which of the following is not in the lowest form?

- (A) 7/5
- (B) 15/20
- (C) 13/33
- (D) 27/28

Solution: (B) 15/20

15/20 = 3/4 (dividing by 5)

Question 5

If (5/8) = (20/p), then value of p is:

- (A) 23
- (B) 2
- (C) 32
- (D) 16

Solution: (C) 32

Consider the given fraction: (5/8) = (20/p) p = 20 × (8/5) = 4 × 8 = 32

Question 6

Which of the following is not equal to the others?

- (A) 6/8
- (B) 12/16
- (C) 15/25
- (D) 18/24

Solution: (C) 15/25
All options simplified:

- (A) 6/8 = 3/4 (dividing by 2)
- (B) 12/16 = 3/4 (dividing by 4)
- (C) 15/25 = 3/5 (dividing by 5)
- (D) 18/24 = 3/4 (dividing by 6)

Therefore, (6/8 = 12/16 = 18/24) ≠ 15/25

Question 7
Which of the following fractions is the greatest?

- (A) 5/7
- (B) 5/6
- (C) 5/9
- (D) 5/8

Solution: (B) 5/6
Among fractions with the same numerator, the one with the smaller denominator is the greatest.
5/9 < 5/8 < 5/7 < 5/6

Question 8
Which of the following fractions is the smallest?

- (A) 7/8
- (B) 9/8
- (C) 3/8
- (D) 5/8

Solution: (C) 3/8
Among fractions with the same denominator, the one with the smaller numerator is the smallest.
3/8 < 5/8 < 7/8 < 9/8

Question 9
Sum of 4/17 and 15/17 is:

- (A) 19/17
- (B) 11/17
- (C) 19/34
- (D) 2/17

Solution: (A) 19/17
Since denominators are the same: (4/17) + (15/17) = (4 + 15)/17 = 19/17

Question 10
On subtracting 5/9 from 19/9, the result is:

- (A) 24/9
- (B) 14/9
- (C) 14/18
- (D) 14/0

Solution: (B) 14/9
Since denominators are the same: (19/9) - (5/9) = (19 - 5)/9 = 14/9

Question 11
0.7499 lies between:

- (A) 0.7 and 0.74
- (B) 0.75 and 0.79
- (C) 0.749 and 0.75

- (D) 0.74992 and 0.75

Solution: (C) 0.749 and 0.75

Question 12

0.023 lies between:

- (A) 0.2 and 0.3
- (B) 0.02 and 0.03
- (C) 0.03 and 0.029
- (D) 0.026 and 0.024

Solution: (B) 0.02 and 0.03

Question 13

11/7 can be expressed in the form:

- (A) $7^{1/4}$
- (B) $4^{1/7}$
- (C) $1^{4/7}$
- (D) $11^{1/7}$

Solution: (C) $1^{4}/_{7}$

Question 14

The mixed fraction $5^{4}/_{7}$ can be expressed as:

- (A) 33/7
- (B) 39/7
- (C) 33/4
- (D) 39/4

Solution: (B) 39/7

$5^{4}/_{7} = 5 + (4/7) = (35 + 4)/7 = 39/7$

Question 15

0.07 + 0.008 is equal to:

- (A) 0.15
- (B) 0.015
- (C) 0.078
- (D) 0.78

Solution: (C) 0.078

Converting to like decimals: 0.070 + 0.008 = 0.078

Question 16

Which of the following decimals is the greatest?

- (A) 0.182
- (B) 0.0925
- (C) 0.29
- (D) 0.038

Solution: (C) 0.29

Converting to like decimals: 0.1820, 0.0925, 0.2900, 0.0380 Comparing: 0.2900 is the greatest.

Question 17

Which of the following decimals is the smallest?

- (A) 0.27
- (B) 1.5
- (C) 0.082
- (D) 0.103

Solution: (C) 0.082

Converting to like decimals: 0.270, 1.500, 0.082, 0.103 Comparing: 0.082 is the smallest.

Question 18

13.572 correct to the tenths place is:

- (A) 10
- (B) 13.57
- (C) 14.5
- (D) 13.6

Solution: (D) 13.6
The tenths place has value 1/10, hundredths place has value 1/100. 13.572 rounded to tenths place is 13.6

Question 19
15.8 - 6.73 is equal to:

- (A) 8.07
- (B) 9.07
- (C) 9.13
- (D) 9.25

Solution: (B) 9.07
Converting to like decimals: 15.80 - 6.73 = 9.07

Question 20
The decimal 0.238 is equal to the fraction:

- (A) 119/500
- (B) 238/25
- (C) 119/25
- (D) 119/50

Solution: (A) 119/500
0.238 = 238/1000 Dividing by 2: = 119/500

Fill in the Blanks (21-44)

Question 21
A number representing a part of a _____ is called a fraction.
Solution: whole

Question 22
A fraction with denominator greater than the numerator is called a _____ fraction.
Solution: proper

Question 23
Fractions with the same denominator are called _____ fractions.
Solution: like

Question 24
$13\frac{5}{18}$ is a _____ fraction.
Solution: Mixed

Question 25
18/5 is an _____ fraction.
Solution: improper

Question 26
7/19 is a _____ fraction.
Solution: proper

Question 27
5/8 and 3/8 are _____ proper fraction.
Solution: like

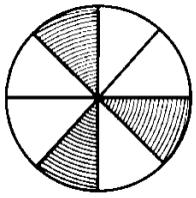
Question 28
6/11 and 6/13 are _____ proper fractions.
Solution: unlike

Question 29

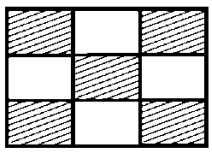
The fraction 6/15 in simplest form is _____.
Solution: 2/5
Question 30
The fraction 17/34 in simplest form is _____.
Solution: 1/2
Question 31
18/135 and 90/675 are proper, unlike and _____ fractions.
Solution: equivalent
Question 32
$8\frac{2}{7}$ is equal to the improper fraction _____.
Solution: 58/7
Question 33
87/7 is equal to the mixed fraction _____.
Solution: $12\frac{3}{7}$
Question 34
9 + (2/10) + (6/100) is equal to the decimal number _____.
Solution: 9.26
Question 35
Decimal 16.25 is equal to the fraction _____.
Solution: 16¼ or 65/4
Question 36
Fraction 7/25 is equal to the decimal number _____.
Solution: 0.28
Question 37
(17/9) + (41/9) = _____.
Solution: 58/9
Question 38
(67/14) - (24/14) = _____.
Solution: 43/14
Question 39
17/2 + 3½ = _____.
Solution: 12
Question 40
9¼ - 5/4 = _____.
Solution: 8
Question 41
4.55 + 9.73 = _____.
Solution: 14.28
Question 42
8.76 - 2.68 = _____.
Solution: 6.08
Question 43
The value of 50 coins of 50 paisa = ₹_____.
Solution: 25
Question 44
3 Hundredths + 3 tenths = _____.
Solution: 0.33

True or False Questions (45-65)
Question 45

Fractions with same numerator are called like fractions.
Solution: False Fractions with same denominators are called like fractions.
Question 46
Fraction 18/39 is in its lowest form.
Solution: False 18/39 = 6/13 (dividing by 3)
Question 47
Fractions 15/39 and 45/117 are equivalent fractions.
Solution: True Cross multiplication: (15 × 117) = (45 × 39) = 1,755
Question 48
The sum of two fractions is always a fraction.
Solution: True Even if the result is a whole number, it can be written as a fraction with denominator 1.
Question 49
The result obtained by subtracting a fraction from another fraction is necessarily a fraction.
Solution: False Not necessarily a fraction, but can be written in fraction form.
Question 50
If a whole or an object is divided into a number of equal parts, then each part represents a fraction.
Solution: True
Question 51
The place value of a digit at the tenths place is 10 times the same digit at the ones place.
Solution: False The tenths place value is 1/10 of the ones place value.
Question 52
The place value of a digit at the hundredths place is 1/10 times the same digit at the tenths place.
Solution: True
Question 53
The decimal 3.725 is equal to 3.72 correct to two decimal places.
Solution: False 3.725 rounded to two decimal places is 3.73.
Question 54
In the decimal form, fraction 25/8 = 3.125
Solution: True
Question 55
The decimal 23.2 = $23^{2}/_{5}$
Solution: False 23.2 = 232/10 = 116/5 = $23^{1}/_{5}$
Question 56
The fraction represented by the shaded portion in the adjoining figure is 3/8.



Solution: True Circle divided into 8 equal parts with 3 shaded.
Question 57
The fraction represented by the unshaded portion in the adjoining figure is 5/9.



Solution: False Rectangle divided into 9 equal parts with 4 unshaded = 4/9.

Question 58
(25/19) + (6/19) = 31/38
Solution: False (25/19) + (6/19) = 31/19 ≠ 31/38
Question 59
(8/18) - (8/15) = 8/3
Solution: False LCM of 18 and 15 = 90 (40/90) - (48/90) = -8/90 ≠ 8/3
Question 60
(7/12) + (11/12) = 3/2
Solution: True (7/12) + (11/12) = 18/12 = 3/2
Question 61
3.03 + 0.016 = 3.019
Solution: False 3.030 + 0.016 = 3.046
Question 62
42.28 - 3.19 = 39.09
Solution: True
Question 63
(16/25) > (13/25)
Solution: True Since denominators are same, 16 > 13.
Question 64
19.25 < 19.053
Solution: False Comparing tenths place: 2 > 0, so 19.25 > 19.053
Question 65
13.730 = 13.73
Solution: True Trailing zeros after decimal point don't change the value.