General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.
2. Each question carries **1 mark**. The maximum marks for this test are **15**.
3. The total time allowed to complete this test is **20 minutes**.
4. All questions are compulsory.
5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.
6. Students must choose the **most appropriate option** for each question.
7. No marks will be deducted for incorrect answers.
8. Calculators and other electronic devices are **not permitted**.
9. Rough work should be done neatly in the space provided (if any).
10. Read each question carefully before answering.

Test Paper 02

Code: 2026/Simple Equations/07/02

1. Solve for y: $4(2y - 3) + 5(3y - 4) = 14$.

   (a) 1

   (b) 2

   (c) 3

   (d) 4

2. A fruit seller has some apples. He sells 40% apples and still has 420 apples. Originally, he had:

   (a) 700

   (b) 800

   (c) 900

   (d) 1000

3. If $\frac{m}{4} - \frac{m-1}{3} = 1$, then m equals:

   (a) 1

   (b) 2

   (c) 3

   (d) 4

4. Twice a number increased by 7 is the same as three times the number decreased by 2. The number is:

   (a) 5

   (b) 7

   (c) 9

   (d) 11

5. If $x = -2$ is a solution of $3x + k = 5$, find k:

(a) 11

(b) 1

(c) -1

(d) -11

6. The sum of the digits of a two-digit number is 9. If 27 is added to the number, the digits are reversed. The number is:

   (a) 36

   (b) 45

   (c) 54

   (d) 63

7. Find x if $2^{x+3} = 32$:

   (a) 1

   (b) 2

   (c) 3

   (d) 4

8. The difference between two positive integers is 36. The quotient when one is divided by the other is 4. The numbers are:

   (a) 12 and 48

   (b) 18 and 54

   (c) 24 and 60

   (d) 36 and 72

9. If $\frac{1}{2}(x-1)+3 = \frac{1}{3}(x+2)+4$, find x.

   (a) 1

   (b) 2

   (c) 3

(d) 4

10. A man is thrice as old as his son. Five years ago he was four times as old as his son. Find their present ages.

    (a) Son: 15, Man: 45

    (b) Son: 10, Man: 30

    (c) Son: 5, Man: 15

    (d) Son: 20, Man: 60

11. In the equation $ax + b = 0$, if x is the variable, then a and b are:

    (a) Variables

    (b) Constants

    (c) Coefficients

    (d) Terms

12. If $3(x + 2) - 2(x - 1) = 7$, then x is:

    (a) 1

    (b) 2

    (c) 3

    (d) 4

13. 10 years ago, a mother was 7 times as old as her daughter. If the mother is 45 years old now, how old is the daughter?

    (a) 10

    (b) 15

    (c) 20

    (d) 25

14. If $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$, then x is:

(a) 10

(b) 15

(c) 20

(d) 25

15. The sum of two numbers is 25. One exceeds the other by 9. Find the numbers.

(a) 8 and 17

(b) 10 and 15

(c) 12 and 13

(d) 14 and 11