



**Subject: Math**

**MM: 20**

**Time Allowed: 60 minutes.**

1. Arrange the following fractions in descending order  $\frac{3}{8}, \frac{5}{6}, \frac{2}{4}, \frac{1}{3}, \frac{6}{8}$ . [1]
2. Add  $\frac{3}{8} + \frac{1}{6}$ . [1]
3. Write  $3 \times a \times a \times 2 \times b \times b \times b \times 6 \times c \times c \times c \times c$  in exponential form. [1]
4. A person spends \$  $x$  per week. The total money spent by him in  $xy^2$  weeks is ..... [1]
5. Find the difference of  $\frac{17}{24}$  and  $\frac{15}{16}$ . [2]
6. One apple weighs 75 grams and one orange weighs 40 grams. Determine the weight of  $x$  apples and  $y$  oranges. [2]
7. Binny spends \$  $a$  daily and saves \$  $b$  per week. What is her income for two weeks? [2]
8. The number of bacteria in a culture is  $x$  now. It becomes square of itself after one week. What will be its number after two weeks? [2]
9. A bullock-cart travels 24 km in three hours and a train travels 120 km in two hours. Find the ratio of their speeds. [2]
10. The length and breadth of a room is  $3x^2y^3$  and  $6x^3y^2$  respectively. Find its perimeter and area. [3]
11. In a large hall there are  $4x^2$  rows of benches. If each row has  $5x^2y^3$  benches and each bench can accommodate  $xy^2$  persons, determine the total number of persons if it is full up to its capacity. [3]