Time: 2 Hours   **M. Marks: 24**

1. Due to bad road, the speed of a tourist bus is reduced by 12 km/hr and it now takes $2\frac{1}{2}$ hours more to cover the same distance of 600 km. Find the time it now takes to cover the distance. (3 marks)

2. Two persons A and B can do a piece of work alone in 10 days and 15 days respectively. If A works for 2 days and B works for 5 days, find the total amount of work done. (3 marks)

3. If 5 men or 9 women can do a piece of work in 19 days. In how many days 3 men and 6 women will do the same work? (3 marks)

4. A car travels a distance of 170 km in 2 hours partly at a speed of 100 km/hr and partly at 50 km/hr. Find the distance travelled at speed of 100 km/hr. (3 marks)

5. In a scout camp, there is food provision for 300 cadets for 42 days. If 50 more persons join the camp, for how many days will the provision last? (3 marks)

6. The mass of an aluminium rod varies directly with its length. If a 16 cm long rod has a mass of 192 g, find the length of the rod whose mass is 165 g. (3 marks)

7. A swimming pool can be filled in 4 hours by 8 pumps of the same type. How many such pumps are required if the pool is to be filled in $2\frac{2}{3}$ hours? (3 marks)

8. Shabnam takes 20 minutes to reach her school if she goes at a speed of 6 km/h. If she wants to reach school in 24 minutes, what should be her speed? (3 marks)