BOATS AND STREAM

1. The speed of a boat in still water is 20 kmph and the rate of current is 4 kmph. The distance travelled by the boat downstream in 30 minutes is:
(a) 8 km (b) 10 km (c) 12 km (d) 14 km

2. A boat running downstream covers 28 km in 7 hrs., while for covering the same distance it takes 14 hrs in upstream. What is the speed of the boat in still water?
(a) 4 kmph (b) 3 kmph (c) 4.2 kmph (d) 5 kmph

3. A man can row upstream at 7 km/h and downstream at 11 km/h. What is the man's rate in still water?
(a) 9 km/h (b) 9.4 km/h (c) 10 km/h (d) 10.4 km/h

4. A man can row 30 km downstream and 20 km upstream taking 5 hr each time. What is the velocity of the current?
(a) 1 km/h (b) 2.5 km/h (c) 3.5 km/h (d) 4.5 k/h

5. A man can row 9 km/h in still water. It takes him twice as long to row up as to row down the river. Find the rate of the stream?
(a) 4 km/h (b) 3 km/h (c) 5 km/h (d) 6 km/h

6. A boatman can row 48 km downstream in 4 hr. If the speed of the current is 3 km/h. Then find in what time will he be able to cover 15 km upstream?
(a) 1 hr 45 min (b) 2 hr 30 min (c) 3 hr 12 min (d) 3 hr 40 min

7. A man can row 6 km/h in still water. If the river is running at 2 km/h, it takes 2hr 45 min more in upstream than to go downstream for the same distance?
(a) 14 km (b) 18 km (c) 16 km (d) 22 km

8. A boat while travelling upstream covers a distance 18 km at the speed of 3 km/h, whereas while travelling downstream, it covers the same distance at a speed of 9 km/h. What is the speed of the boat in still water?
(a) 3 km/h (b) 5 km/h (c) 6 km/h (d) cannot be determined

9. A man can row 30 km upstream and 44km downstream in 10 hr. Also, he can row 40 km upstream and 55 km downstream in 13 hrs. Find the rate of current is:
(a) 4 km/h (b) 4.5 km/h (c) 3 km/h (d) 3.5 km/h

10. A man takes thrice the time to cover upstream when compared to downstream. If the speed of stream is 6 kmph, then what will be his speed in still water?
(a) 8 kmph (b) 10 kmph (c) 12 kmph (d) 15 kmph

11. A man can row a boat at a speed of 10 kmph in still water. He goes to a certain point upstream and back to starting point in a river. Speed of flowing river is 2 kmph. What is the average speed of the boat for total journey?
(a) 4 kmph (b) 6 kmph (c) 8.4 kmph (d) 9.6 kmph

12. A man can swim at 10 kmph in still water. If the river flows at 3 kmph and, it takes 12 hrs more in upstream than to go downstream for the same distance, then how far is the place?
(a) 189 km (b) 169 km (c) 170 km (d) 182 km