Boat & Stream

1. If time taken by a boat to go 56 km downstream and 60 km upstream is 5 h. If the ratio of the downstream and upstream speed is 7: 5, then find the speed of the boat in still water.
(A) 25 km/hr **(B)** 24 km/hr
(C) 30 km/hr **(D)** 20 km/hr
(E) 22 km/hr

2. The speed of the boat in still water is 10 kmph and speed of river is 5 kmph. Boat takes a total of 16 hrs to go to a place and come back. What is the total distance covered in the whole process?
(A) 60 km **(B)** 120 km
(C) 90 km **(D)** 30 km
(E) None of these

3. Speed of a boat in still water is 12 kmph and the speed of the stream is x kmph. If in travelling 270 km upstream boat takes $66\frac{2}{3}$% more time than travelling 270 km downstream. Find the value of x.
(A) 2 Kmph **(B)** 4 Kmph
(C) 1 Kmph **(D)** 3 Kmph
(E) 6 Kmph

4. The ratio of speed of boat in still water to speed of stream is 8 : 1. It take 4 hours by boat to cover 54 Km in downstream and 42 km in upstream. Find the downstream speed of boat.
(A) 25 Kmph **(B)** 24 Kmph
(C) 22 Kmph **(D)** 20 Kmph
(E) 27 Kmph

5. If time taken to cover ' D + 9' km upstream is twice the time taken to cover D km downstream. If ratio of speed of boat upstream to the speed of boat downstream is 3:5 and the time taken to cover 'D – 5' km in still water is 2 hrs. What will be the speed of water current?
(A) 4 **(B)** 5
(C) 6 **(D)** 3
(E) 2

6. If time taken to cover ' D – 11' km upstream is four times the time taken to cover D km downstream. If ratio of speed of boat in still water to the speed of water current is 9:7. And the time taken to cover 'D – 2' km in upstream is 2 hrs. what will be the speed of boat in still water?
(A) 30 kmph **(B)** 20 kmph
(C) 45 kmph **(D)** 35 kmph
(E) None of these

7. If time taken to cover (D+11) km upstream is thrice the time taken to cover (D–3) km downstream. If ratio of speed of boat in upstream to the downstream is 3 : 7 and time taken to cover (D+18) km downstream is 2.5 hours what will be the speed of current?
(A) 4 km/hr **(B)** 6 km/hr
(C) 8 km/hr **(D)** 10 km/hr
(E) None of these

8. Total distance between A and B is d kms. If the distance travelled along the stream is three time of the total distance and the distance travelled against the stream is two times of the total distance. If the time taken to cover the distance along the stream is 10% less then the time taken to cover the distance against the stream. If a person cover a distance of 21 km in 1 hr 24 min along the stream, then find the rate of current ?
(A) 2 km/hr **(B)** 3 km/hr
(C) 1 km/hr **(D)** 4 km/hr

(E) None of these

9. A man can row 10 kmph in still water and finds that it takes 4 times more to row up than to row down the same distance in the river. What is the speed of the current?
(A) 10/3km/hr **(B)** 21/2 km/hr.
(C) 20/3 km/hr. **(D)** 25km/hr.
(E) None of these

10. A boat covers 15km distance in upstream in 2 hour more than the same distance in downstream. If speed of boat is 300% more than the speed of current then what is the distance covered by boat in downstream in 5 hours?
(A) 25km **(B)** 20km
(C) 27km **(D)** 30km
(E) 15km

11. In a river the speed of boat in downstream is twice as speed of boat in upstream. If boat takes total 12 hours to go 32 km from A to B and return to A by travelling same distance then find speed of boat in still water.
(A) 6 kmph **(B)** 8 kmph
(C) 2 kmph **(D)** 4 kmph
(E) 10 kmph

12. If a speed of boat is 500% more than the speed of a current.
Quantity I –'x' : If boat can travel a distance of 63 km in 3 hr, in downstream then 'x' is the speed of the boat in upstream (km/hr).
Quantity II – 15 km/hr
(A) Quantity I > Quantity II
(B) Quantity I < Quantity II
(C) Quantity I ≥ Quantity II
(D) Quantity I ≤ Quantity II
(E) Quantity I = Quantity II or No relation

13. Upstream speed is 6km/hr less than the downstream stream speed. The speed of the boat is 21km/hr. Find the time to cover the distance of 108 km in the upward direction.
(A) 4 hr **(B)** 5 hr
(C) 8 hr **(D)** 9 hr
(E) 6 hr

14. Ratio of speed of boat in still water to the speed of current is 10:1. Ratio of time taken by the boat to cover D km in downstream to the time taken by the boat to cover (D – 45) km in upstream is 3:2. Then find the value of D?
(A) 60 km **(B)** 87 km
(C) 99 km **(D)** 108 km
(E) 90 km

15. If the ratio of speed of boat in downstream and speed of stream is 9 : 1, speed of current is 3 km per hr, What would be the distance travelled in upstream by the boat in 5 hours?
(A) 90 km **(B)** 97 km
(C) 115 km **(D)** 105 km
(E) None of these

16. A man can row 52 km upstream and 42 km downstream in 10 hours. It is also known that he can row 66 km downstream and 60 km upstream in 13 hours. Find the speed of the man in still water.
(A) 8 km/hr **(B)** 12 km/hr
(C) 6 km/hr **(D)** 10 km/h
(E) none of these

17. A boat travels 12km downstream and 6km upstream in 3 hours. The same boat takes fifty percent extra time to cover 10km downstream and 16km upstream. Which of the following should the boat travel so that the journey is completed in exactly four hours?
(A) 16km downstream, 6km upstream
(B) 20km downstream, 4.5km upstream
(C) 12km downstream, 8km upstream
(D) 10km downstream, 7.5km upstream
(E) None of the above

18. A boat takes 6 min more to cover 21 km downstream when the river flowing at the speed of x km/hr then the time taken to cover the same distance downstream when the river flowing at the rate of (x+1) km/hr. find the value of x if the speed of boat in still water is 12 km/hr ?

(A) 1.5 **(B)** 2
(C) 2.5 **(D)** 1
(E) 3

19. Boat A travels 62 ½ km in upstream in 2 ½ hrs. The speed of another boat B in still water is 80% of the speed of boat A in downstream and the speed of stream for both boat A and B is same i.e. 2.5 km/hr. Find the distance travelled by boat B in upstream in 4 hours.

(A) 82 km **(B)** 86 km
(C) 88 km **(D)** 84 km
(E) 94 km

20. Boat A travels 185 km in downstream in 3 hr. 42 min. The speed of another boat B in downstream is 5 km/hr less than the speed of boat A in still water and the speed of stream for both boats is same i.e. 7.5 km/hr. Then find the total distance travelled by boat B in 2 hr in upstream and downstream together.

(A) 120 km **(B)** 130 km
(C) 145 km **(D)** 126 km
(E) 118 km