## Boats and Streams Aptitude Questions and Answers Pdf

1. A man can row 6 Km/h in still water. If the river is running at 2 Km/h, it takes 3 hours more in upstream than to go downstream for the same distance. How far is the place?

a. 24 Km

b. 28 Km

c. 3 Km

d. None of these

Ans: A

(a) The required distance

$$= \frac{(x^2 - y^2)t}{2y} = \frac{(36 - 4)3}{2 \times 2} = 24$$
 Km.

- 2. If a boat goes 7 km upstream in 42 minutes and the speed of the stream is 3 kmph, then the speed of the boat in still water is
  - a. 4.2 km / hr
  - b. 9 km / hr
  - c. 13 km /hr
  - d. 21 km / hr -→C

Ans:

Rate upstream =  $\left(\frac{7}{42} \times 60\right)$  kmph = 10 kmph.

Speed of stream = 3 kmph.

Let speed in still water be x km/hr. Then, speed upstream = (x - 3) km/hr.

 $\therefore$  x - 3 = 10 or x = 13 km/hr.

3. A man's speed with the current is 15 km/hr and the speed of the current is 2.5

km/hr. The man's speed against the current is

- a. 8.5 km / hr
- b. 9 km/hr
- c. 10 km/hr
- d. 12.5 km/hr -→C

Ans:

Man's rate in still water = (15 - 2.5) km/hr = 12.5 km/hr. Man's rate against the current = (12.5 - 2.5) km/hr = 10 km/hr.

- 4. Speed of a boat in standing water is 9 kmph and the speed of the stream is 1.5 kmph. A man rows to a place at a distance of 105 km and comes back to the starting point. The total time taken by him is
  - a. 16 hours
  - b. 18 hours
  - c. 20 hours
  - d. 24 hours  $\rightarrow D$

Ans:

Speed upstream = 7.5 kmph; Speed downstream = 10.5 kmph.

- $\therefore$  Total time taken =  $\left(\frac{105}{7.5} + \frac{105}{10.5}\right)$  hours = 24 hours.
- 5. The speed of a boat in still water is 15 km / hr and the rate of current is 3 km / hr. The distance travelled downstream in 12 minutes is
  - a. 1.2 km
  - b. 1.8 km
  - c. 2.4 km
  - d. 3.6 km -→D Ans:

Speed downstream = (15 + 3) kmph = 18 kmph. Distance travelled =  $\left(18 \times \frac{12}{60}\right)$  km = 3.6 km.