## **Boats and Streams Questions for SSC Exams Pdf**

- 1. Speed of a man is 19 Km/h in still water. If the rate of current is 3 Km/h, then the effective speed of the man upstream is
  - a. 7 Km/h
  - b. 8.5 Km/h
  - c. 9 Km/h
  - d. None of these  $\rightarrow$  a

Ans:

Speed of man in still water = 10 Km/hr

Speed of current = 3 Km/hr

Therefore, Speed of man upstream = 10 - 3 = 7 Km/hr.

- 2. A boatman goes 2Km against the current of the stream in 1 h and goes 1 Km along the current in 10 min. How long will he take to go 5 Km in stationary water?
- a. 1 hour
- b. 1 hour 15 minutes
- c. 2 hours
- d. 40 minutes

Ans: B

- **(b)** Upstream speed = 2 Km/h Downstream speed = 6 Km/h
- $\therefore$  Speed in still water =  $\frac{2+6}{2}$  = 4 Km/h
- :. Time required to go 5 Km in still water
- $=\frac{5}{4}$  hours = 1 hours 15 minutes.
  - 3. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?
    - a. 40 minutes
    - b. 1 hour

- c. 1 hr 15 min
- d. 1 hr 30 min

Ans: C

Rate downstream = 
$$\left(\frac{1}{10} \times 60\right)$$
 km/hr = 6 km/hr, Rate upstream = 2 km/hr.  
Speed in still water =  $\frac{1}{2}$  (6+2) km/hr = 4 km/hr.

$$\therefore \text{ Required time} = \left(\frac{5}{4}\right) \text{ hrs} = 1\frac{1}{4} \text{ hrs} = 1 \text{ hr 15 min.}$$

- 4. If a man rows at the rate of 5 kmph in still water and his rate against the current is 3.5 kmph, then the man's rate along the current is
  - a. 4.25 kmph
  - b. 6 kmph
  - c. 6.5 kmph
  - d. 8.5 kmph

Ans: C

Let the rate along the current be x kmph. Then, 
$$\frac{1}{2}(x+3.5) = 5$$
 or  $x = 6.5$  kmph.

- 5. A boat travels upstream from B to A and downstream from A to B in 3 hours. If the speed of the boat in still water is 9 Km/h and the speed of the current is 3 Km/h, the distance between A and B is
- a. 4 Km
- b. 6 Km
- c. 8 Km
- d. 12 Km

Ans: D

Speed upstream = 
$$(9 - 3) \text{ Km/h} = 6 \text{ Km/h}$$

Let, the distance AB = x Km

Then, 
$$\frac{x}{6} + \frac{x}{12} = 3 \implies 2x + x = 36$$

$$\Rightarrow x = 12$$