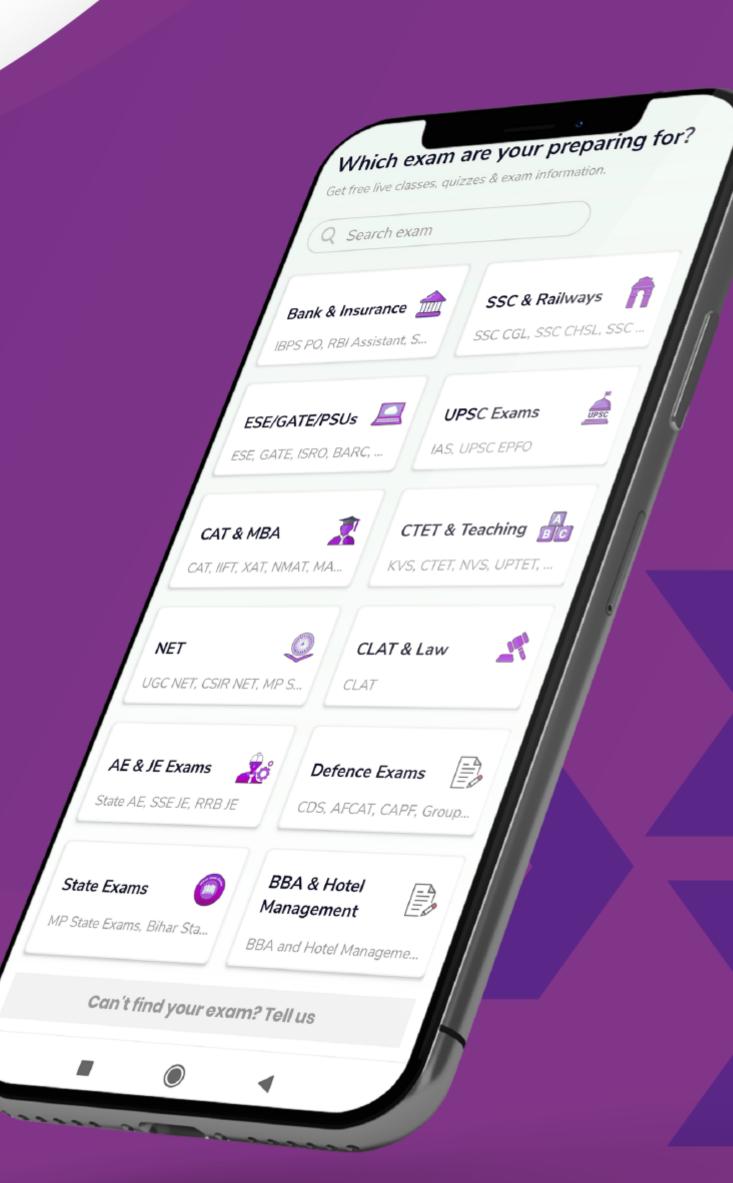


# Formula Sheet On Boat & Stream

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## **Basic Concept**

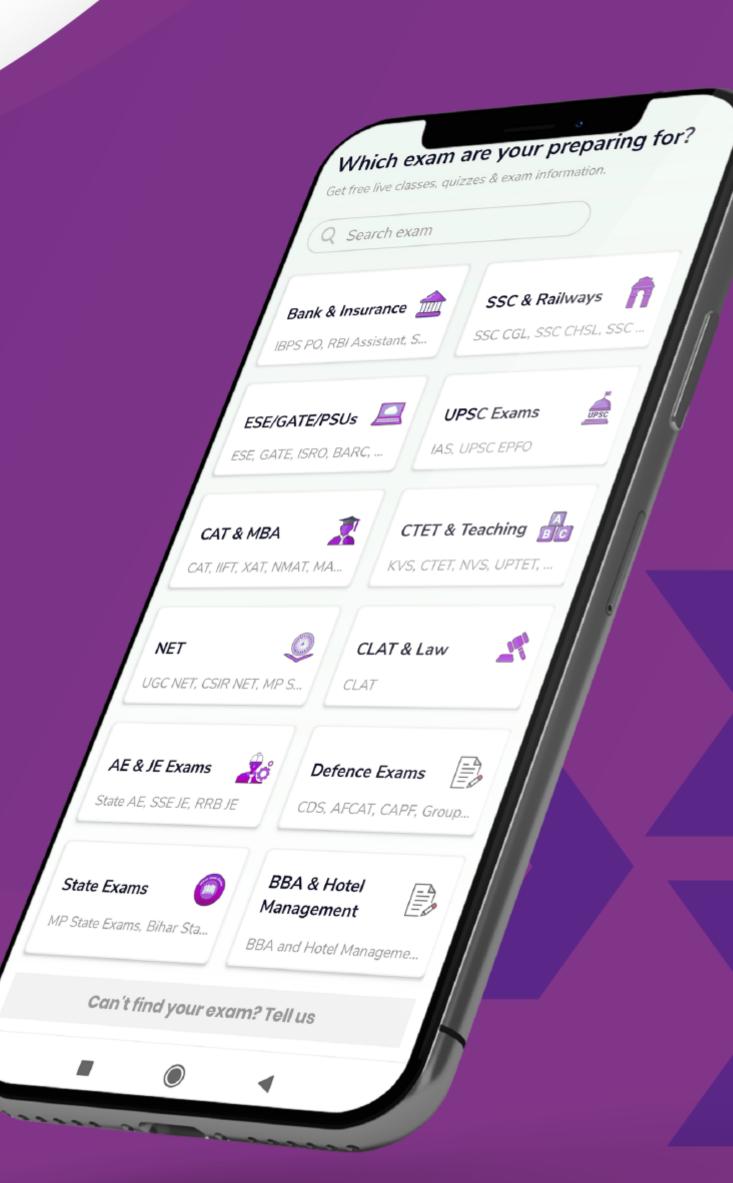
## Direction along the stream is known as downstream.

Direction against the stream is known as *upstream*.

Moving of water in a river or sea or is known as stream.

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## If speed of boat in still water is 'U' km/h & speed of stream is V km/h Then,

Speed Downstream = (U + V) km/h

Speed Upstream = (U – V) km/h

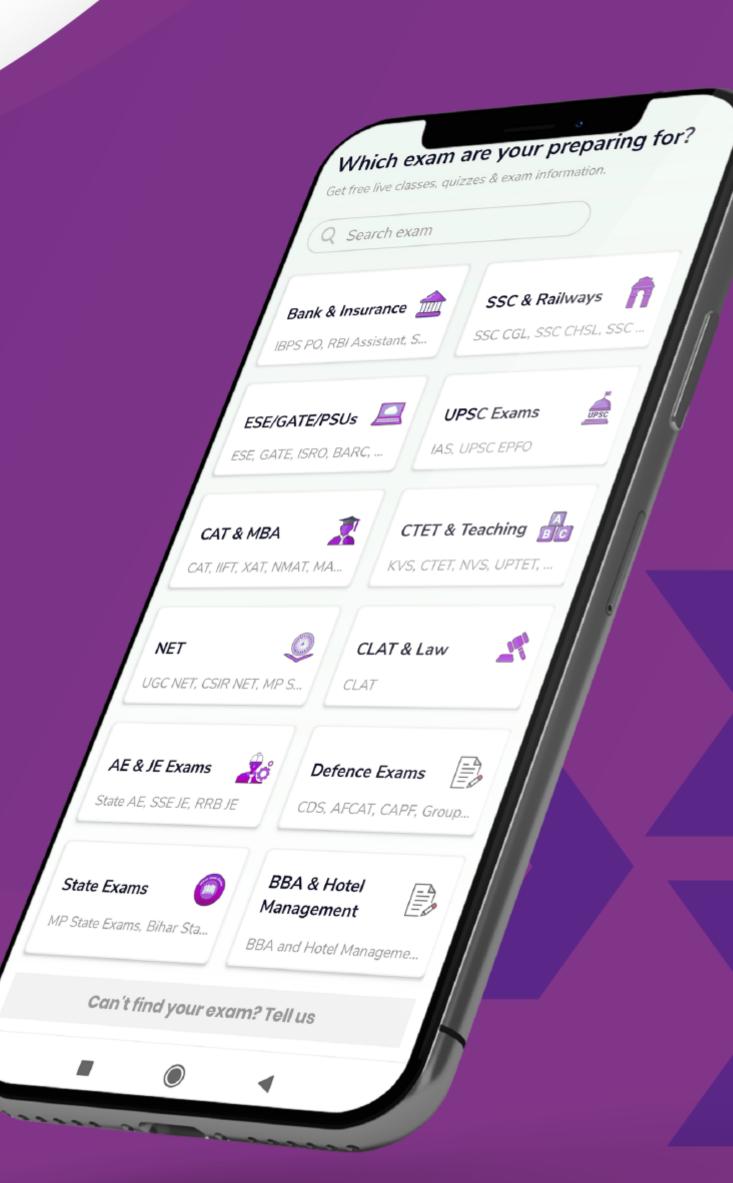
If speed in downstream is 'a' km/h & the speed in upstream is 'b' km/h Then,

Speed in still water =  $\frac{1}{2}$  (a+ b) km/h

Speed of stream =  $\frac{1}{2}(a-b) \text{ km/h}$ 



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## **Some Tips And Tricks**

Let's assume that a boy can row at a speed of A km/h it still water & he rows

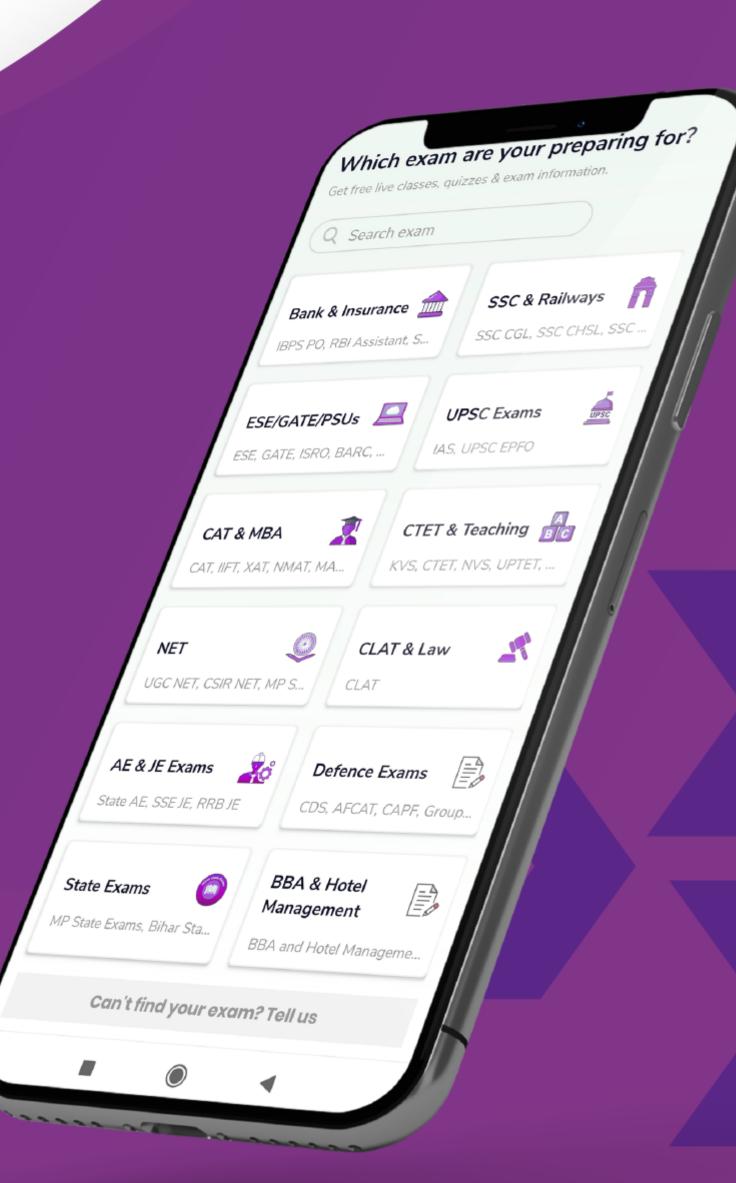
the same distance up & down in a stream which flows at rate of B km/h. Then

his average speed throughout the journey-









Let's the speed of a boy in still water be A km/h and the speed of stream be

B km/hr. If he takes 'X' hours more in upstream than to go downstream for

the same distance. Then the distance= 
$$\frac{(A \times A - B \times B) \times X}{2B}$$
 km

A boy can row a certain distance in still water at A km/hr. In a stream flowing

at B km/hr, if it takes him t hours to row a place and come back, then the

distance between two point = 
$$\frac{t(A \times A - B \times B)}{2A}km$$

A boy rows a certain distance downstream in t1 hours and return the same

distance upstream in t2 hours. If the speed of the stream is A km/hr, Then

the speed of the boy in still water=

$$\frac{A(t2+t1)}{t2-t1}km/hr$$







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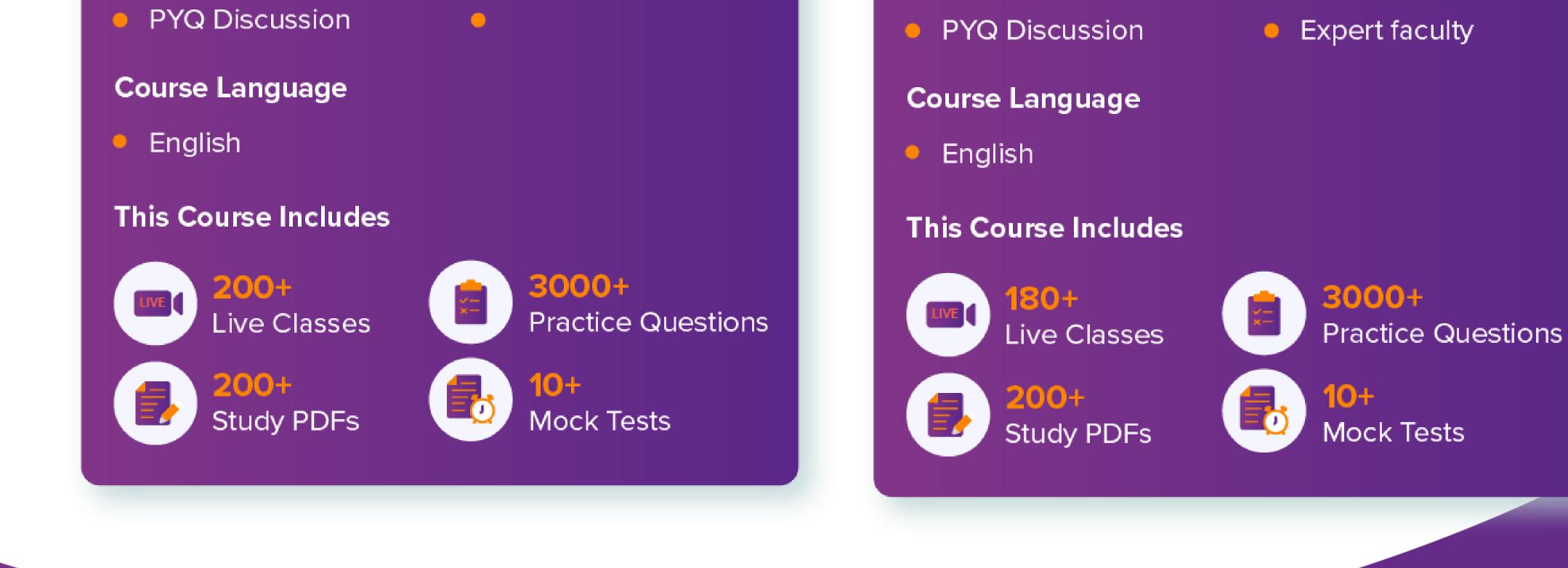
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