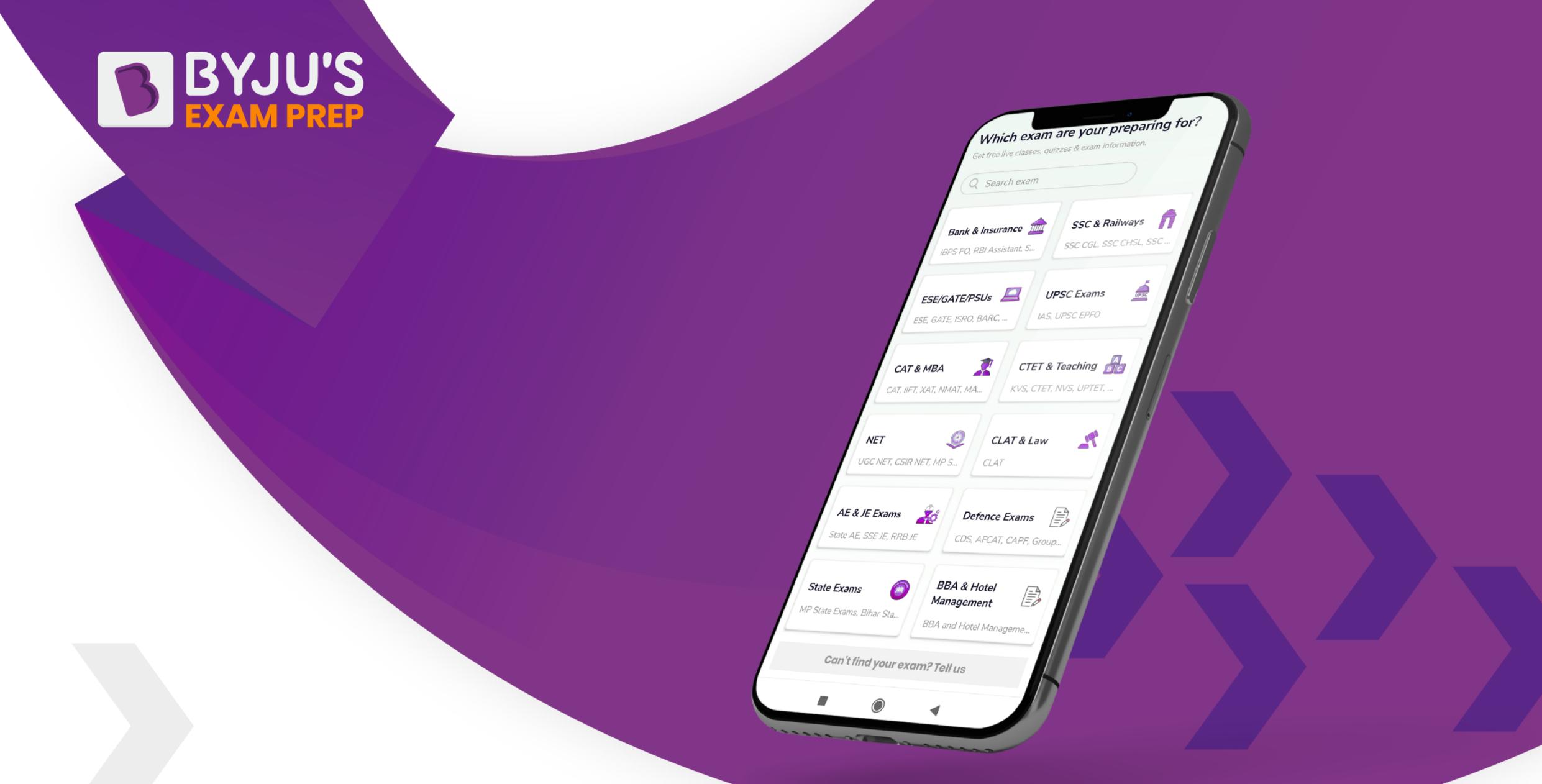


Formula Sheet On Time & Distance

https://byjusexamprep.com



Unit Conversion

1 hour = 60 min = 360 seconds

$$1 \text{ km} = 1000 \text{ m}$$

$$\frac{1 \text{ km}}{-18} = \frac{5}{\text{m}} / \text{s}$$

$$\frac{1m}{-m} = \frac{18}{-m} / h$$
sec 5

1 mile = 1.60 km







Formulas

$$Speed = \frac{Distance}{Time}$$

Distance = Speed x Time

$$Time = \frac{Distnace}{Speed}$$

Average Speed = $\frac{Total\ Distance}{Total\ Time}$





Concept

- Suppose while travelling a certain distance 'd' if there is a change in speed in the ratio m:n, then the ratio of time taken will become n : m.
- If speed changes during the journey then average speed will be = $\frac{2xy}{x+y}$





Relative Speed

When objects move in the same direction with speed S₁ and S₂ resp.

Then relative speed = $S_1 - S_2$

When an object moving in the opposite direction with speed S₁ and S₂ resp.

Then their Relative speed will be = $S_1 + S_2$

• When objects move towards each other.

Then time taken by them to meet will be = $\frac{Distance}{S1+S2}$

ullet When object moving in opposite direction time taken to meet will be = $rac{Distance}{S1-S2}$





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