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# DIRECTOR MESSAGE



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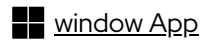
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# CSIR NET FOR PHYSICS SYLLABUS

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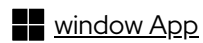
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Birds and mammals ■ large size ■ colder regions i.e. Body size increases with colder climate. It is most often applied to mammals and birds which are endotherms (organisms that maintain their body at a metabolically favourable temperature largely by use of heat released by its internal body functions e.g. shivering. (Opposite ■ Ectoderms / cold blooded Endotherms ■ warm blooded animals/ homeotherms. The tail snout, eggs, legs of mammals are relatively shorter in colder part than in warmer areas ■ Allen's rule ■ The rule says that body shapes and proportions of endotherms vary by climatic temperature by either minimizing exposed surface to minimize heat loss in cold climates or maximizing exposed surface area to maximize heat loss in hot climates. i.e. The endotherms from hot climates have ears, tails, limbs and snouts etc. that are long and thin equivalent animals from cold regions have short and thick body parts. E.g. different in size of ears in Arctic fox, red fox and desert fox. ■ Jordan's Rule ■ It describes the inverse relationship between water temperature and meristic characteristics (The countable structures occurring in series (e.g. vertebrae, fin rays etc.) in fish.

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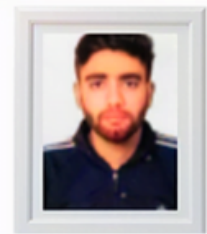


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# OUR TOPPER



**Pulkit**  
All India Rank-1



**Vikas**  
All India Rank-1

**1000+**  
Selected students.....



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