

[www.vishnuias.com](http://www.vishnuias.com)



# Today's Topic



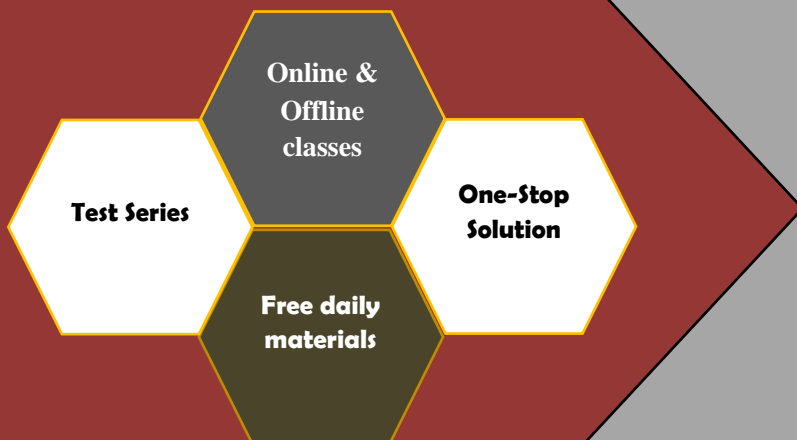
<https://t.me/vishnuiasmentor>



<https://www.youtube.com/channel>

## Extreme Cold Weather Clothing System

Notes for civil services preparation



UPSC

General Studies

## Extreme Cold Weather Clothing System

- Recently, DRDO (Defence Research and Development Organisation) has handed over a Technology for indigenous Extreme Cold Weather Clothing System (ECWCS) to five Indian companies.
- Earlier, DRDO successfully conducted maiden flight test of a new indigenously developed surface-to-surface missile 'Pralay'.

## Key Points

### About:

- It is an ergonomically designed modular technical clothing with improved thermal insulation and physiological comfort based on the insulation required at various ambient climatic conditions in Himalayan regions during different levels of physical activity.
- The ECWCS embodies physiological concepts related to the reduction in respiratory heat and water loss, unhindered range of motions and rapid absorption of sweat while providing waterproof, windproof features with adequate breathability and enhanced insulation as well as strength features required for high altitude operations.
- It is designed to suitably provide thermal insulation over a temperature range of +15 to -50 degrees Celsius with different combinations of layers and intensity of physical work.

### Significance:

- It is required by the Indian Army for its sustained operations in glacier and Himalayan peaks. The Army, till recently has been importing extreme cold weather clothing and several Special Clothing and Mountaineering Equipment (SCME) items for the troops deployed in high altitude regions.
- It provides an advantage of fewer combinations to meet the required insulation for the prevailing climatic conditions, thereby providing a viable import alternative for the Indian Army.