



**SECTION-B**

2. Give the repeat unit of Kevlar and also explain why Kevlar exhibit superior properties.
3. What are the advantages of PAN based carbon fibre process over rayon based carbon fibre process?
4. What is neck drawing and why is it required for drawing of fibre?
5. Solution wet spun fibres are comparatively dimensionally more stable than melt or solution dry spun fibres, why-so?
6. Discuss the factors influencing structure development of wet spun acrylic fibre.

**SECTION-C**

7. Discuss the chemistry and technology of PET fibre manufacturing process
8. Write short notes on :
  - a. Spin finish
  - b. Glass fibre
9. How heat setting of staple fibres is done? How heat setting influences the structure and properties of fibre? How dyeability of PET fibre is influenced by the heat setting condition?

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