## 23124 3 Hours / 70 Marks

Seat No.

Instructions:

- (1) All Questions are *compulsory*.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.

Marks

## 1. Attempt any FIVE of the following:

10

- (a) Define:
  - (i) Monomer
  - (ii) Degree of polymerisation
- (b) List desirable properties of fibre.
- (c) Draw L.S. and T.S. of cotton fibre.
- (d) Give chemical composition of banana fibre.
- (e) List the uses of banana fibre.
- (f) Give two physical properties of banana fibre.
- (g) Draw morphological structure of wool fibre.

## 2. Attempt any THREE of the following:

12

- (a) Define the term moisture regain. Also state its impact on fibre properties.
- (b) Differentiate between crystaline region and amorphous region.
- (c) Give brief classification of cotton fibre based on its staple length.
- (d) With chemical structure explain various types of linkages present in cellulose.



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