

### IT-3 - Textile Studies

Time : Three Hours



Max. Marks : 80

Note : All questions are compulsory and carry equal marks.

1. a) Give the classification of fibers according to origin and source. 16

**OR**

- b) Explain the physical and chemical properties and uses for the following fibers. **8x2**  
a) Cotton b) Viscose Rayon **=16**

- |           |     |                           |          |
|-----------|-----|---------------------------|----------|
| <b>2.</b> | a)  | Explain-                  |          |
|           | i)  | Fiber quality requirement | <b>8</b> |
|           | ii) | Pre-Preparatory Process   | <b>8</b> |

**OR**

- b) Explain the process of manufacturing of yarn with details of the process involved with the help of a flow chart. **16**

3. a) Explain the process of following dyeing- **8x2**  
 i) Tiesedye dyeing ii) Ikat dyeing **=16**

**OR**

- b) Give the classification of colorants in detail. **16**

4. a) Explain the following process- 16  
 i) Kalamkari Printing ii) Rotary Printing

**OR**

- [illegible]

5. Write in short notes **any four**. **4x4**  
**=16**
- a) Nylon
  - b) Microscopic structures of cotton & wool, nylon and Linen.
  - c) Dyeing defects & remedies
  - d) Madhubani
  - e) Yarn twisting

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