



17568

14115

3 Hours/100 Marks

Seat No.

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- Instructions :** (1) **All** questions are **compulsory**.
(2) Answer **each** next main question on a **new** page.
(3) Illustrate your answers with **neat** sketches **wherever** necessary.
(4) Figures to the **right** indicate **full** marks.
(5) Assume suitable data, **if** necessary.

MARKS

1. Attempt **any ten** :

20

- Enlist various types of fancy yarn.
- State objectives of doubling.
- State the function of yarn clearers.
- What is knotting ? Enlist various types of knots with its figure.
- What is objectives of waxing in winding ?
- State the function of opening roller in OE spinning.
- What are limitations of ring spinning ?
- State modern development in rotor in open end spinning.
- State yarn properties of Air jet spinning.
- State yarn characteristics of compact spinning.
- State properties of O.E. yarn.
- What is the need of yarn conditioning ?
- What are objectives of winding ?

2. Attempt **any two** :

16

- Describe construction and working of TFO with neat sketch.
- Explain mechanical type of yarn clearing devices with neat sketch.
- Describe passage of material through rotor machine with neat sketch.

P.T.O.



3. Attempt **any two** : **16**
- a) Differentiate between open end spinning and ring spinning with its advantages and disadvantages.
 - b) Describe working of DREF II machine with neat sketch.
 - c) Describe construction and working of Air jet spinning with neat sketch.
4. Attempt **any two**. **16**
- a) State the effect of twist direction and amount of twist on properties of doubled yarn.
 - b) Differentiate between drum and precision winding machine with its advantages and disadvantages.
 - c) Explain yarn formation in rotor spinning and twist insertion method with neat sketch.
5. Attempt **any two** : **16**
- a) Explain various raw material requirement and preparation of sliver in O.E. spinning.
 - b) Explain Siro spinning with neat sketch. Also state properties of Siro yarn.
 - c) What is splicing ? What are different types of splicers ? What is principle of splicing mechanism and state the advantage of spliced yarn over knotting.
6. Attempt **any two** : **16**
- a) Explain features of following special yarn
 - i) Viole yarn
 - ii) Sewing thread
 - iii) Hosiery yarn
 - b) Explain following about O.E. spinning
 - i) Yarn withdrawing and winding unit
 - ii) Types of navel
 - iii) Draw tube
 - c) Explain REPCO spinning. Also state yarn properties of REPCO.
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