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11819

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. Answer **any five** : **20**
 - a) What are the objects of finishing ? Give classification of finishing.
 - b) What is percentage expression on padding mangle ?
 - c) What are softeners ? Give classification of softener.
 - d) What are resins ? Give objects of resin finishing.
 - e) Give mechanism of creasing and resin finishing.
 - f) What is OBA ? Explain chemistry of OBA in brief.
 - g) What is burning cycle and thermal behaviour of textile fibres ?

2. Answer **any two** : **16**
 - a) What is “weight pick-up” ? With suitable diagram explain 1 dip - 1 nip and 2 dip - 2 nip operation of padding mangle.
 - b) What is antcreasing ? Give general recipe for resin finishing and explain role of catalyst in resin finishing.
 - c) What is L.O.I. ? State its importance. Explain the concept of flame proof and flame retardancy.

3. Answer **any two** : **16**
 - a) What is antimicrobial finishing ? State the requirements, types and explain the mechanism of antimicrobial finishing.
 - b) Describe waterproof and water repellent finishing of cotton material.
 - c) Give classification of flame retardants. State essential requirements of a good flame retardant. How will you make cotton flame retardant ?

P.T.O.



- 4. Answer any two :** **16**
- a) What is calendering and sanforising ? With suitable diagram explain the working principle of calendering and sanforising machines.
 - b) Describe properties, mode of action and application technique of cationic and reactive softeners.
 - c) Give classification and properties of resin and catalysts. Explain the concept of pre-cure and post-cure method. Also state the limitations of resin finishing.
- 5. Answer any two :** **16**
- a) What is “sueding” ? With suitable diagram explain the working principle of sueding and stenter machine. State the uses of stenter.
 - b) What is stiffening ? Classify stiffeners. Explain the application method of stiffeners on fabrics.
 - c) What do you understand by the terms “crease recovery angle” and “DP rating” ? Explain a method of durable press finishing of denim garments.
- 6. Answer any two :** **16**
- a) Explain the mechanism and application methods of OBA for cotton, wool and polyester fabrics.
 - b) What is moth proofing of wool ? Stating the desirable properties of a good antimicrobial finish, explain a method of antimicrobial finish for cotton and silk and also give evaluation technique.
 - c) What is biopolishing ? Explain a concept of nano-finishing for imparting a special effect on textiles.
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