

17463

14115

3 Hours / 100 Marks

Seat No.

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- Instructions :** (1) All Questions are *compulsory*.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.

Marks

1. Answer any TEN :

20

- What are the objects of sizing ? How they are achieved ?
- Give importance of softeners in size ingredients. Enlist name of various softeners.
- Enlist various sizing ingredients used in size paste with its example.
- Explain all elements in size box and their function.
- State important features of Modern Size Box.
- State importance of PIV gears drive to sizing machine.
- State importance of Stretch in warp during sizing.
- Give definition of Lappers and Migration in sizing.
- Enumerate the essential features of an Automatic Loom.
- State the different types of warp stop motion you have studied.
- Why COP changing looms are not suitable for filament weft ?
- State the advantages of centre selvedge motion in Automatic weaving.
- What are the types of Healds used in Drawing-in process ?

2. Answer any TWO :

16

- What are functions of softeners and lubricants ? What are oils and fats ? Give examples of each.
- Describe cooking of size paste with pressure cooker with neat sketch.
- Explain size paste properties and their importance.



P.T.O.

- 3. Answer any TWO : 16**
- (a) Describe the various factors affecting the size pick-up of a sizing machine.
 - (b) State the importance of Teflon coating on drying cylinders.
 - (c) State the importance and function of measuring and marking motion in sizing. Draw sketch with name of important parts.
- 4. Answer any TWO : 16**
- (a) (i) How do lappers and migration of ends occur during sizing ?
(ii) What are factors effecting migration and its consequence ?
 - (b) Explain measurement of stretch and its control of different zones in sizing.
 - (c) Define stretch and state importance of stretch in warp during sizing.
- 5. Answer any TWO : 16**
- (a) Sketch a Pirn changing mechanism of an Automatic Loom. Name different parts and state the working of the change of pirn.
 - (b) Enumerate the types of Weft Feeler on Automatic Loom. Suggest the weft feeler suitable for continuous filament weft.
 - (c) Explain the functions of the following :
 - (i) Three try motion
 - (ii) Shuttle protector
 - (iii) Sensitive backrest in semi-positive Let-off motion
 - (iv) Shuttle eye cutters
- 6. Answer any TWO : 16**
- (a) Explain the working of four colour Automatic cop changing loom with the aid of suitable diagram.
 - (b) Write the function and working of each cam used on shuttle changing loom.
 - (c) What are different type of Reaching, Drawing-in and knotting methods and machines used for Drawing-in process.
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