

17463

16172

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.
 - (6) Use of Non-programmable Electronic Pocket Calculator is permissible.

Marks

1. Answer any FIVE :

20

- (a) What are objects of sizing and give features of modern sizing machine.
- (b) Differentiate between power loom and auto loom.
- (c) Briefly explain various features of an Automatic loom.
- (d) Enlist various sizing ingredient used for formulation of size paste and explain role of each briefly.
- (e) State various advantages of centre weft-fork motion used on Automatic loom over side weft-fork used on plain power loom.
- (f) Why shuttle changing looms are preferred over pirn changing loom to weave special qualities like silk fabric ?
- (g) Explain selection, care and storage of reeds.

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P.T.O.

2. Answer any TWO :**16**

- (a) Explain importance of following properties with respect to size paste :
 - (i) Congealing property
 - (ii) Keeping property
 - (iii) Viscosity
 - (iv) Concentration of size paste
- (b) Explain process of cooking of size paste with help of a pressure cooker and its storage.
- (c) Which are the different types of creels used on a sizing machine ? Give their advantages and disadvantages.

3. Answer any TWO :**16**

- (a) With neat sketch explain the passage of warp through a multicylinder sizing machine.
- (b) Explain various factors affecting the size pick-up on the sizing machine.
- (c) Explain how it is advantageous of having Teflon coating and temperature control on 'Automatic modern sizing machine'.

4. Answer any TWO :**16**

- (a) What is stretch ? How it is generated in sizing machine and explain measures to control it.
- (b) What is migration ? How can it be controlled and explain its effect on weaving performance.
- (c) Explain various elements of size box with neat sketch.

5. Answer any TWO :**16**

- (a) With neat sketch explain working of pirn changing mechanism on a Automatic loom.
- (b) Explain function of
 - (i) Shuttle protector
 - (ii) Photo electric feeler
 - (iii) Serrated Bar
 - (iv) Drop wires
- (c) Explain construction and working of warp stop motion on Automatic loom.

6. Answer any TWO :**16**

- (a) Give classification of various feelers used on an Automatic loom. Explain briefly midget feeler and depth feeler with neat sketch.
 - (b) Differentiate between knotting and Drawin-Zn.
 - (c) Explain function of each cam on shuttle changing loom.
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