

# 17463

**21819**

**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.
- (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

- 1. Attempt any FIVE of the following :** **20**
  - a) What are the objects of sizing.
  - b) State the importance of softners in size paste.
  - c) Draw a neat sketch of conventional size box and lable the parts.
  - d) Define stretch at sizing.
  - e) List the different types of weft feelers used on automatic loom.
  - f) State the factors affecting size pickup in the yarn.
  - g) Calculate the total number of dents if reed count is 80<sup>s</sup> stock port and reed width is 64 inches.
  - h) Describe selection, cave and storage of reed.
  
- 2. Attempt any TWO of the following :** **16**
  - a) List the various ingredients used in preparation of a size paste and explain function of any two size ingredients.
  - b) Explain the congealing and keeping properties of a starch paste and their importance.
  - c) Draw a neat diagram of a modern size box and lable the parts and explain the working.

P.T.O.

- 3. Attempt any TWO of the following :** **16**
- a) Explain the passage of yarn through a multi-cylinder sizing machine with a neat sketch.
  - b) Explain use of PIV gears in sizing machine.
  - c) List different types of creels used in sizing machine. State the merits and demerits of any one with the help of a diagram.
- 4. Attempt any TWO of the following :** **16**
- a) How to control stretch on sizing machine at various zones.
  - b) Explain the factors affecting size pickup.
  - c) State the different between ordinary loom and automatic loom.
- 5. Attempt any TWO of the following :** **16**
- a) Sketch and label a pirn changing mechanism on an automatic loom and explain the working of the change of pirn.
  - b) List various warp stop motions used on auto loom. Explain their importance and working of any one of them with a neat sketch.
  - c) Sketch and label Cimco semi positive let off mechanism.
- 6. Attempt any TWO of the following :** **16**
- a) Compare shuttle changing loom with pirn changing loom.
  - b) Mention eight important points required in warp preparation for automatic weaving
  - c) (i) Describe different types of reaching drawing in denting and knocking method used in weaving department.  
(ii) What are the different types of healds used in drawing in process?
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