



Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech(MTT)/SEM-2/MTT-204/2010
2010**

TECHNOLOGY OF FABRIC FORMATION

Time Allotted : 3 Hours

Full Marks : 70

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

Answer any *five* questions. $5 \times 14 = 70$

1. What are the functions of tensioners in winding process ?
What are the essential qualities should tensioners have and
why ? Discuss the working principle of a tensioner suitable
for modern winding machine. $4 + 5 + 5$

2. What are the objects of warping ? What measures are taken
to obtain these objectives ? What problems will occur in
subsequent processes if the objectives are not fulfilled ?
 $4 + 4 + 6$

3. What are the controls that are being incorporated in modern
sizing machine to get a beam with uniform warp tension ?
Why this control is so essential is sizing machine ? $7 + 7$

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4. How does uncontrolled warp tension affect fabric quality in weaving machine ? What measures are taken in weaving machine to avoid this problem ? 8 + 6
5. a) Weft tension control is very important to get fabric of high quality. Discuss.
- b) What are the causes of variation of weft tension in shuttle and shuttleless loom and how are they controlled ? 7 + 7
6. Write notes on any *two* of the following : 2 × 7
- a) Modern let-off systems
- b) Bumping condition in loom
- c) Modern take-up mechanism.
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