

Name :

Roll No. :

Invigilator's Signature :

**CS/M.Tech (MTT)/SEM-2/MTT-203/2010
2010**

TECHNOLOGY OF YARN FORMING

Time Allotted : 3 Hours

Full Marks : 70

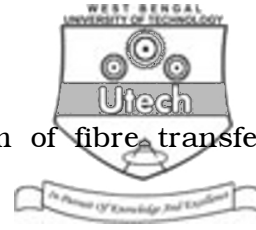
The figures in the margin indicate full marks.

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

Answer any *five* questions.

5 × 14 = 70

1. Compare the performance of "Uniclean" & "Step cleaner" in terms of cotton fibre length characteristics.
2.
 - a) The treatment for opening and cleaning imparted by taker-in is very intensive leading to deterioration in fibre characteristics. State the points low degree of deterioration can be controlled. 4
 - b) State the advantages brought in by incorporating the carding segments. 4
 - c) Explain why the "Cylinder-Flats" area is by far the most effective region of the card. 3
 - d) State the factors which affect the intensity of nep separation in the carding zone. 3



3. Give a critical review on the mechanism of fibre transfer between the component parts of the card.
 4. Discuss in detail about the formation of wrapper fibres in rotor spinning.
 5. Critically discuss about the effect of following factors on spinning of finer counts in rotor spinning : 2 ∞ 7
 - a) Raw materials and their properties
 - b) Yarn twist.
 6. Discuss about the economics of the Airjet spinning system in comparison to other systems of spinning.
 7. Discuss about the effect of fibre parameters on the characteristics of Dref-III yarns.
 8. Compare the properties of vortex spen yarns with ring and rotor spen yarns.
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