



Mansoura university	Term Exam Jan., 2013	Wool Yarns Manufacturing Part: [I]
Faculty of Engineering	2 nd year	Time: 90 minutes
Textile Department		Degrees: 55 marks

Answer the following questions:

- 1) a) Write in short about: Wool fibre fineness, felting and mechanical properties. *[9 Marks]*
- b) Classify the wool impurities and the methods of its removal. *[5 Marks]*
- c) Define: Quality number, tear ratio, yield % and the degree of reduction of the wool tuft mass in %. *[6 Marks]*
- 2) a) Explain the wool opener of periodical action. *[10 Marks]*
- b) If you have a traditional scouring method of high yield wool and it is suggested to improve it to be CSIRO-LO-PLO process. Explain by means of diagrammatic sketches this process and the required equipments. *[10 Marks]*
- 3) By means of diagrammatic sketches, explain the different actions which carried-out in the worsted carding machine through the material pass on this m/c. *[15 Marks]*

*With my best wishes,
Prof. Dr. I. M. Rakha*