UKA TARSADIA UNIVERSITY
Maliba Pharmacy College
B. Pharm. 1st Semester Internal Examination 2013 (*Mid-Sem 1*)
030020103-Pharmaceutical Engineering

Time: 9:30 a.m. To 10:30 a.m.   Max. Marks: **20**
Date: 26/10/2013

Q. 1 **Convert following unit conversions. (any three)**   06
- **a.** Convert viscosity 0.20 poise (dyne/cm^2) into SI unit
- **b.** 60 lb/ft^3 to g/cm^3
- **c.** 1000 kg/(hr)(m^2) to Lb/(hr)(ft^2)
- **d.** 5 m/hr to m/sec
- **e.** 200 Btu/(hr)(ft^2) to kwh/(cm^2)(sec)   {1 kwh = 3412.8 btu}

Q.2 Define unit operation and unit process with example and give importance of   04
pharmaceutical engineering.

OR

Q.2 Enlist types of graphs and graphical representation and explain in detail.   04

Q.3 Give principle, construction and working of leaf filter.   05

OR

Q.3 Write short note on filter aid.   05

Q.4 Compare and contrast orifice meter and venturi meter.   05

OR

Q.4 Give principle, construction, working, advantages and disadvantages of venture meter.   05