

ECE471 INDUSTRIAL POWER SYSTEMS

Assignment # 1 Hints & Answers

1.

(Ans. a) 97.4 A, d) 710.4V)

2.

(Ans. 139.8 A @ 0.892 lag.)

3.

(Ans. c) 1.8 Hz, d) 1200 rpm and 0 rpm)

4.

(Ans. c) 900 rpm, e) 27 rpm, 900 rpm and 0 rpm)

5.

(Ans. 247.8 Nm or 182.7 lb.ft)

6.

(Ans. 900 rpm)

7.

(Ans. 1164 rpm)

8.

(Ans. 80%)