UE25EE141A – UNIT 2 – QUESTION BANK – ANSWER KEY

(Unsolved Questions)

Lecture 26

2. C = 81.27μF, Current drawn = 5A, PF = 0.45 Lead

Lecture 27

 2.

  i) PF = 0.99 Lead

  ii) **Reactive Power in the circuit = -1.22VAR**

  iii) **Magnitude of supply voltage = 8.09V**

Lecture 28

  1. **Resistance of the coil = 19.09Ω**

     Inductance of the coil = 81mH

Lecture 29

  1. **Series Equivalent is a Series RL circuit with R = 1.44Ω and X_L = 1.92Ω**

Lecture 32

2. **Current supplied = 6.71A; Power = 1.54KW; Power factor = 0.998 Lead**

Lecture 33

2. R = 310Ω & C = 10μF