V.S.B. ENGINEERING COLLEGE, KARUR

Department of Information Technology
Academic year: 2017-2018(EVEN)
ASSIGNMENT QUESTIONS

MA 8251 MATHEMATICS –I

1. Find an 'LU' Factorization of matrix $A=\begin{bmatrix} 3 & -6 & 3 \\ 6 & -7 & 2 \\ -1 & 7 & 0 \end{bmatrix}$

2. (i) Show that F=($3x^2$+6xy, $3x^2$+6y) is conservative and find the potential function f such that $F=\nabla f$

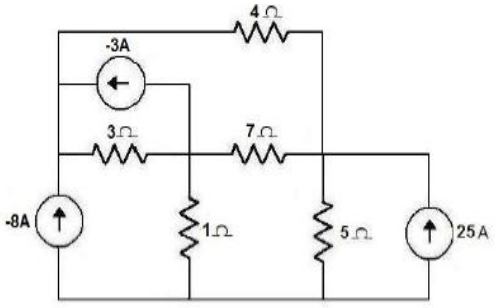
(ii) Let $F=r^n(x,y)$ use extended Green's Theorem to show that F is conservative for all integers n. Find a
potential function

PH8252 PHYSICS FOR INFORMATION SCIENCE

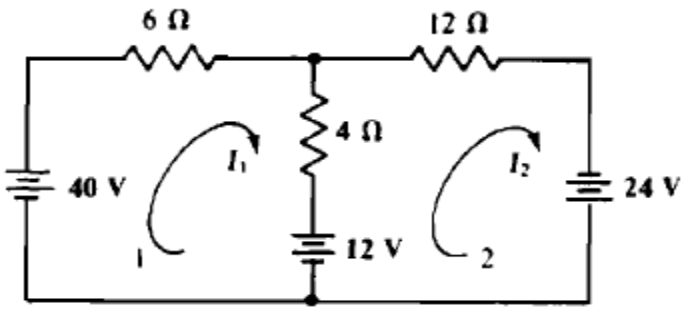
1. Fundamental of Nano devices
2. Semiconductor conduction band and valance band
3. Origin of magnetic materials

BE 8255 BASIC ELECTRICAL, ELECTRONICS AND MEASUREMENT ENGINEERING

1. (a) Find the nodal voltages in the circuit of figure.



(b) Determine the mesh current in the circuit



2. Describe the operation of Hysteresis Motor and Reluctance Motor.
3. Explain in detail about the Construction and working principle of Room Heater.
4. With neat Diagram Explain the Operation of Clipper and Clamper.
5. Write short notes on calibration of instruments and the standards followed.

IT8201 INFORMATION TECHNOLOGY ESSENTIALS

1. Write a html program to display your class timetable.
2. External and internal scripts
3. Cisco three layer hierarchy model
4. Hashing and indexing in DBMS
5. Parts of cell phone
6. Image map in Javascript.
7. Entity relationship model

CS8251 - PROGRAMMING IN C

1. Basic of C programs, C programs related with numbers, L.C.M and H.C.F, Swapping and Conversion (Number System).
2. C programs related with String, Matrix, File, Series and Array.
3. C programs related with Sorting, Recursion, using pointer, Searching and Area and volume.