## Course Details

Course Title
Network Analysis-I
Module:
4rth
Instructor: $\qquad$ Total Marks: 30

## Student Details

Name: $\qquad$ Student ID: $\qquad$

| Q1 | (a) | For the circuit shown below, calculate the voltage V, the conductance G, and the power $P$. | $\begin{aligned} & \text { Marks } 05 \\ & \hline \text { CLO } 1 \end{aligned}$ |
| :---: | :---: | :---: | :---: |
|  | (b) | A resistor absorbs an instantaneous power of $20 \operatorname{Cos}^{2}(t) m W$ when connected to a voltage source $\mathrm{V}=10 \cos (t) v$. Find I and R? | $\begin{aligned} & \text { Marks } 05 \\ & \hline \text { CLO } 1 \end{aligned}$ |
| Q2 | (a) | Find $\mathrm{R}_{\mathrm{ab}}$ for the circuit given below. | $\begin{aligned} & \text { Marks } 10 \\ & \hline \text { CLO } 1 \end{aligned}$ |
| Q3 | (a) | Find $\mathrm{V}_{1}$ and $\mathrm{V}_{2}$ for the circuit shown below. Also calculate $\mathrm{i}_{1}$ and $\mathrm{i}_{2}$ and the power dissipated in the $12 \Omega$ and $40 \Omega$ resistors. | $\frac{\text { Marks } 05}{2}$ |


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