Department of Electrical Engg. 11TDalhi EEL101 Fundamentals of Bleetneal Engg Time 60mb Minor Test I (01/09/11) Marson Hos 20 Q1. In the circuit of Rg1. \$ 305 Jun 100 find v., , v2, i and Reg. Use much analysis. 12V-T (Time) Fig. 1 Q2 for the about shown in 2 fig. 2 find isc Short chown't connent isc and the source current is. $\frac{1}{15}$ $\frac{1}{20}$ $\frac{3}{15}$ $\frac{17}{20}$ A $\frac{1}{15}$ $\frac{17}{20}$ A $\frac{1}{15}$ $\frac{17}{40}$ $\frac{1}{15}$ $\frac{17}{40}$ $\frac{1}{15}$ $\frac{17}{40}$ $\frac{1}{15}$ $\frac{17}{40}$ $\frac{1}{15}$ $\frac{1}{15}$ 2,362 Q3. Find therenin's equivalent ist the country Ag 3 to 20 m the left of terminals 27 22A 7 a and b. Determne absorbs maximum pover Prax and obtain Pmax. 3252 32H 84. For the Worth shown (ist) Yirt Ville Fig 4(a) in Fig 4 (a), inductor in Fig 4(b). Sketch 2(4), in (t), is (t), PR (t) and WL (1), to scale. Mathematreally define Ltt), ist) Amps Fig 4(6) against time. Explain the current direction (4)
with respect to the indicated arrow. Pg 1/6

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Shown in Fig. 5, the Switch It (t) Switch Sw Spend at t=0 sec. Find 206)

Grant Pas reached strady state correlation prior to t=0 sec. Plat 20(t) and i (t) against time and obtain peak apacter volvage.