

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-III (Old) EXAMINATION – WINTER 2019

Subject Code: 130901

Date: 28/11/2019

Subject Name: Circuits And Networks

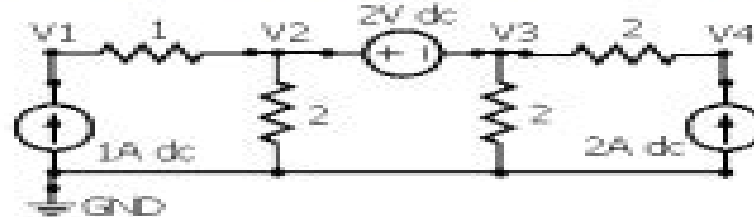
Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

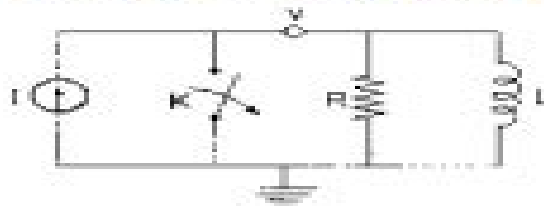
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) State and explain Thevenin's and Norton's theorem with suitable examples. 07
 (b) What are Y parameters and Z parameters? Derive the expression for Z parameters in terms of Y parameters and vice versa. 07
- Q.2** (a) Define following terms: (i) Linear and Nonlinear networks (ii) Lumped and Distributed Networks (iii) Passive and Active Networks (iv) Dependent Source 07
 (b) State and explain initial value and final value theorem. 07
- OR**
- (b) Obtain the laplace transform for $f_1(t) = t$ and $f_2(t) = te^{-at}$ 07
- Q.3** (a) State and explain principle of duality. 07
 (b) Solve for the nodal voltages V1, V2, V3 and V4 as shown in the network in figure . using nodal analysis. 07



OR

- Q.3** (a) State the procedure to obtain solution of a network using laplace transform technique. State its advantages over classical method. 07
 (b) In the network shown in fig. the switch K is opened at $t=0$. find the value of V, dV/dt , d^2V/dt^2 at $t=0^+$ if $I=10$ A, $R=10$ Ω and $L=1$ H 07



- Q.4** (a) State and explain maximum power transfer theorem. derive the condition for maximum power transfer to the load for d.c. circuits. 07
 (b) In the network shown in fig. the switch K is moved from 1 to 2 position at $t=0$, steady state having previously been attained. Determine the current $i(t)$ 07

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**Stephen Michael Elonka, Julian L.
Bernstein**



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