Government college of Engineering, Amravati

("An Autonomous institute of government of Maharashtra")

Date:21/09/2015 **Course Code- ETU301 (NA)**

Time: 1 hour **Marks: 15M**

All Figures are at back side of paper.

Q.1		**Solve any 2**	
a.		Derive the equivalent Y parameter for the 2 parallel connected network and find Z parameter for the given fig.1	5M
b.		Find the Y and H parameter for given network in fig.2	5M
c.	I)	Calculate Y parameter for given fig.3	3M
	II)	What is characteristic impedance Calculate. Z_0 for given T-Network in fig.4	2M
Q.2	I)	Calculate T Parameter for fig.5	3M
	II)	Design a constant K low pass filter (π and T section) having cut-off frequency of 2 KHz to operate with terminal load resistance of 500 ohm.	2M

V_1 I_1