L.C.R RESONANCE

Experiment(s):

1. Realisation of series and parallel resonance
2. Determination of L & Q variations

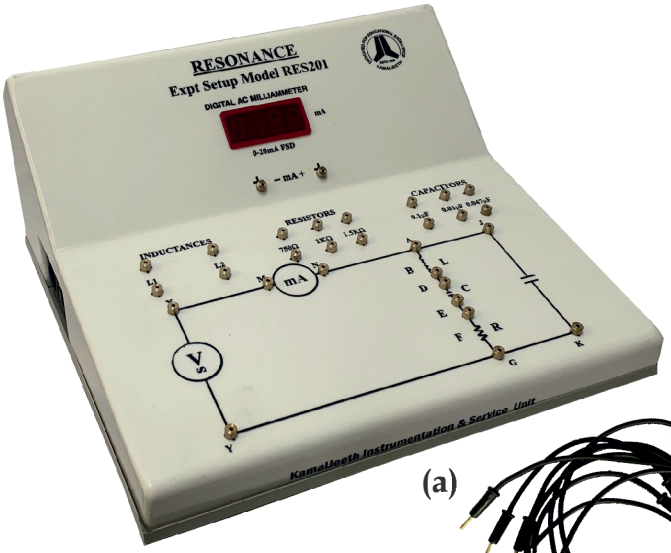
Reference : Detailed textbook of Engineering physics practicals by S P Basavaraju, Page - 115

Experiment setup consists:

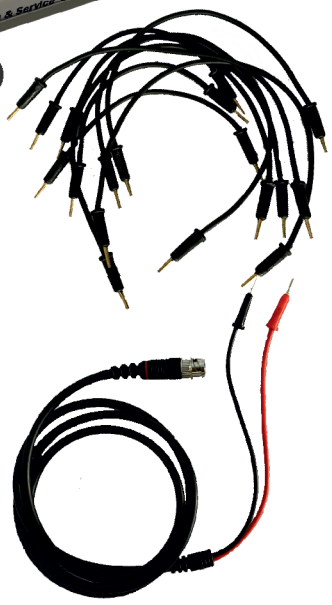
a) Resonance kit

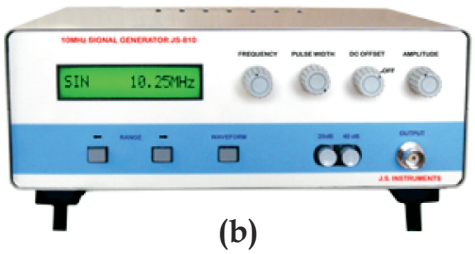
b) Set of patch cords

c) Signal generator

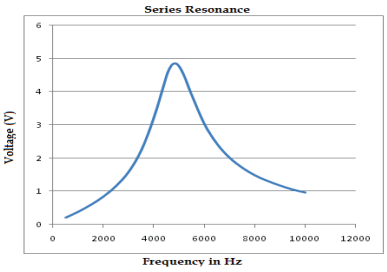


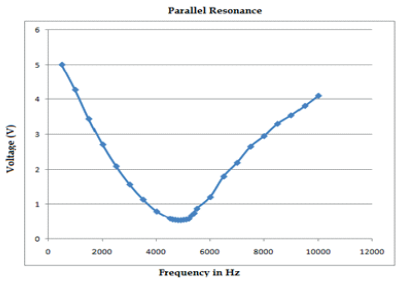
(a)





(b)





Specifications:

a) Resonance kit
Components:
Inductance - selectable 2 values
Capacitor - selectable 3 values
Resistor - selectable 3 values
Meter: Digital wide band AC voltmeter
Range: 20 V
Resolution: 0.1 V
Display: Digital DC 3½ digit, LED
Rated Input: 220 V/50 Hz
or 110 V/60 Hz
Power consumption: <50 W
Cabinet: Acrylic body, aluminium bottom

b) Signal generator
Range: 1 MHz
Waveform: Sine, triangular, square and pulse
Display: Waveform & frequency
DC offset: Yes
Output impedance: 50 Ω
Accuracy: 0.1% > 100 Hz
Output: BNC connector
Max. amplitude: 20V P-P
Rated Input: 220 V/50 Hz
or 110 V/60 Hz
Power Consumption: <20 W
Cabinet: Metal

ELECTRICITY

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3 years manufacturing warranty