

# B.K.U Practical Examination 2020-2021

Ramananda College

Course Code - SHPHS/201/C-3

Course ID – 22421

SEM – II (H)

Subject – Physics (Electricity & Magnetism Lab)

F.M. 15

Time - 1 hour

1. Draw a LCR Circuit. 1
2. Define L, C, R with units in SI system. 3
3. What is resonance frequency? Write an expression for it. 2
4. What is the use of the circuit? 1
5. Draw a graph between frequency vs current of a LCR circuit ( $R=330\text{ohm}$ ,  $L=40\text{mH}$ ,  $C=0.1$  micro Farad) using following data and verify theoretically the value of resonant frequency. 6+2

Frequency (Hz)	Current (mA)	Frequency (Hz)	Current (mA)	Frequency (Hz)	Current (mA)
1000	0.99	2400	2.50	3800	2.20
1200	1.23	2600	2.56	4000	2.11
1400	1.49	2800	2.57	4200	2.02
1600	1.75	3000	2.52	4400	1.93
1800	2.00	3200	2.45	4600	1.85
2000	2.22	3400	2.36	4800	1.78
2200	2.40	3600	2.29	5000	1.70

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Submit Pdf copy to [rajeshxrd@gmail.com](mailto:rajeshxrd@gmail.com) in between 12-1 pm (Exam Time 11am-12 noon) dated 28.07.21