

ESC201

Major Quiz-I

11/02/2025

Total Marks: 8

Time: 30 minutes

Instructions

- Please write your name and roll number first.
- Read the question carefully and answer it in the question paper itself.

1) After a crushing defeat in the Delhi elections, IIT Alumnus Mr. Arvind Kejriwal wants to tune into the "Mann ki Baat" program by our Prime Minister on the Vividh Bharti (AIR) FM at a frequency of 105.4 MHz. Mr. Kejriwal wants to design a filter which may pass the content of Vividh Bharti channel while attenuating (rejecting) the adjacent FM radio channels Radio Nasha (107.2 MHz) and FM Rainbow Lucknow (100.7 MHz) by at least -60 dB. Since he spent a lot of money during the election campaign, he can only afford a resistor of 50Ω , a variable inductor and a variable capacitor to design this filter. Can you please help Mr. Kejriwal design this filter using the R, L, and C components and find out:

- (a) the quality factor (Q) of this filter. (2 marks)
- (b) the values of inductance and capacitance needed. (2 marks)

Iit Model Question Paper 21

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