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B. Tech. Examination 2021-22**(Even Semester)****ADVANCE ANALOG CIRCUITS****Time : Three Hours]****[Maximum Marks : 100****Note :-** Attempt all questions.1. Attempt any two parts of the following : $10 \times 2 = 20$

(a) What are operational amplifiers? Explain with proper diagram the equivalent circuit of an op-amp. Why op-amps are called so?

(b) Explain the principle of current mirror circuit. Why current mirror circuits are preferred for biasing purpose?

[P. T. O.