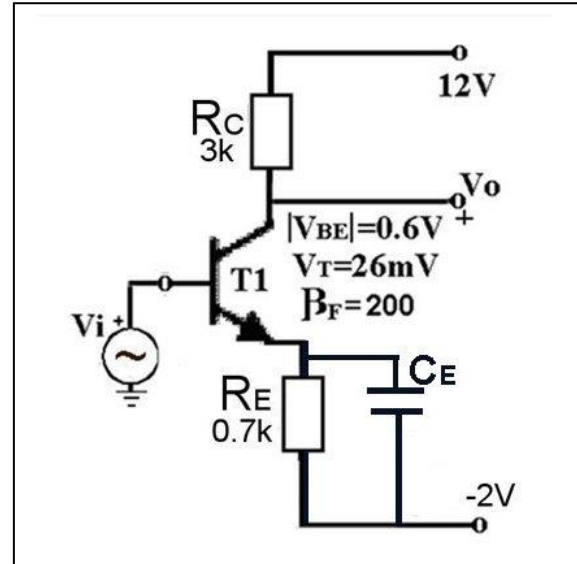-The exam will have characteristics of a conventional written exam.
-The answers should be written on A4 white-papers by hand.
-The submission of the answer papers should be done in PDF file to the NINOVA system.
-The parts in the problem have equal points.

Problem
The figure shows an amplifier circuit employing a BJT.
For the BJT, β_F=200 and V_{BE}=0.6V are given. V_T=26mV.

a) Find the collector current of the transistor (Ic)
for DC case (Quiescent point or Bias point).

b) Find ac gain (vo/vi).

c) For a second ac signal applied to the circuit as in
the figure below, **find the total Vo**.