ESC201A EndSem Part 2

SHIV NARAYAN

TOTAL POINTS

12.5 / 19

QUESTION 1

Q1 9 pts

1.1 1(a) 3/3

- + 3 pts Completely Correct
- + 0 pts Completely Incorrect
- + 0 pts Not Attempted
- + 0 pts Copied
- √ + 1 pts DC Equivalent circuit correctly found
- √ + 1 pts Transistor currents correctly found
- √ + 1 pts Collector voltage correctly found

1.2 1(b) 0.5 / 6

- + 6 pts Completely Correct
- + 0 pts Completely Incorrect
- + 0 pts Not Attempted
- + 0 pts Copied
- + 3 pts Transistor currents correctly found
- + 1.5 pts RE correctly calculated
- + 1.5 pts R2 correctly calculated
- + **0.5** Point adjustment

QUESTION 2

Q2 10 pts

2.1 **2(a) 5 / 6**

- + 6 pts Completely Correct
- + 0 pts Completely Incorrect

- + 0 pts Not Attempted
- + 0 pts Copied
- + 2 pts Desirable circuit schematic correctly drawn
- √ + 1 pts Feedback resistance correctly found
- √ + 1.5 pts Resistors corresponding to source v1
 correctly found
- √ + 1.5 pts Resistors corresponding to source v2
 correctly found
- + 1 Point adjustment

2.2 2(b) 4/4

- √ + 4 pts Completely Correct
 - + 0 pts Completely Incorrect
 - + 0 pts Not Attempted
 - + 0 pts Copied
 - + 1 pts Bias state of diodes correctly found
 - + 1.5 pts Vo1 correctly found
 - + 1.5 pts Vo2 correctly found

Name

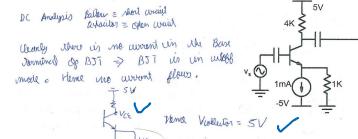
SMIV NARAYAN Roll No.

210978

4K

Seat/Room No.

1 (a). Carry out dc analysis to determine collector voltage for the circuit shown below. Assume that current gain $\beta_F = 100$. [3]



1 (b). Determine suitable values for resistances $R_{\rm E}$ and $R_{\rm 2}$ so =100. [6]



