

- c) DC load current
  - d) DC output power
  - e) PIV across each diode.
  - f) RMS Load current
  - g) RMS current through each diode
  - h) DC load voltage
3. a) In the figure -1 find  $I_E$ ,  $I_B$ ,  $I_C$ , and  $V_{CE}$ ?  
 Given  $V_{CC}=30V$ ,  $R_1=10K\Omega$ ,  $R_2=30K\Omega$ ,  $R_3=20K\Omega$ ,  $\beta =100$ ,  $-V_{EE}= -30V$ ,  
 Neglect  $V_{BE}$  [4]
- b) Calculate the transistor current in the figure-2?  
 Given  $V_{CC}=10V$ ,  $R_1=1K\Omega$ ,  $R_2=100K\Omega$ ,  $R_3=0.5K\Omega$ ,  $\beta =200$ , Neglect  $V_{BE}$ . [5]

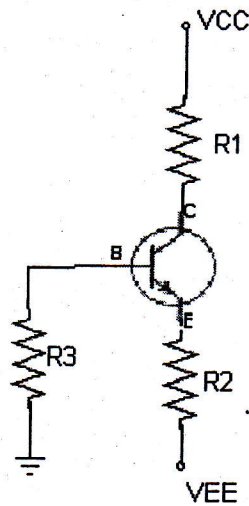


Figure-1

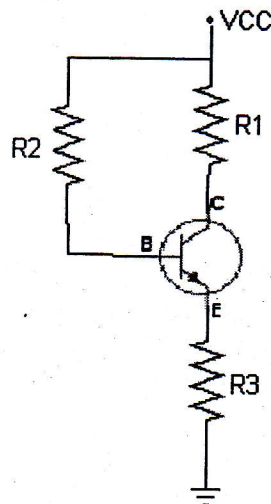


Figure-2

4. a) What is the difference between common-mode and differential-mode input signals? [2]
- b) For the fig below find  $R_i$  [3]

