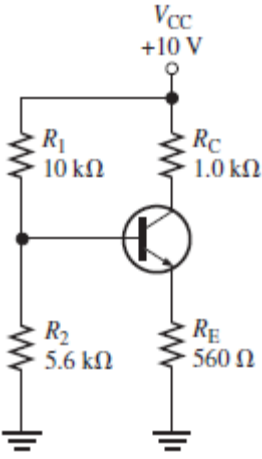


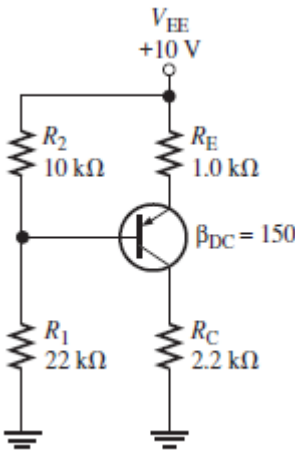
Electronic Circuits II - Assignment 01

1	DC bias establishes the dc operating point for an amplifier.	
2	Q-point is the quadratic point in a bias circuit.	
3	The dc load line intersects the horizontal axis of a transistor characteristic curve at $V_{CE} = V_{CC}$.	
4	The dc load line intersects the vertical axis of a transistor characteristic curve at $I_C = 0$.	

MCQ

#	Question	
1	<p>If the value of R_1 in Figure is increased, the emitter current will</p>  <p>(a) increase (b) decrease (c) not change</p>	



2	<p>If R_E in Figure is decreased, the collector current will</p>  <p>(a) increase (b) decrease (c) not change</p>	
3	<p>Ideally, a dc load line is a straight line drawn on the collector characteristic curves between</p> <p>(a) the Q-point and cutoff (b) the Q-point and saturation (c) $V_{CE(cutoff)}$ and $I_{C(sat)}$ (d) $I_B = 0$ and $I_B = I_C/\beta_{DC}$</p>	
4	<p>The input resistance at the base of a biased transistor depends mainly on</p> <p>(a) β_{DC} (b) R_B (c) R_E (d) β_{DC} and R_E</p>	
5	<p>In a certain voltage-divider biased <i>npn</i> transistor, V_B is 2.95 V. The dc emitter voltage is approximately</p> <p>(a) 2.25 V (b) 2.95 V (c) 3.65 V (d) 0.7 V</p>	



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