

Answer a total of 5 questions (each 20%).

1. What is the major difference between a negative feedback and a positive feedback?
Why is positive feedback less common in our body?
2. In animals, the velocity of action potential may vary depending on the types of nerve.
Why are they different?
3. Draw a well-labeled diagram showing the oxygen hemoglobin dissociation curve
observed under normal physiological conditions. Discuss the advantage of its form.
4. Draw a flow-chart showing the events of a synaptic transmission. Explain in how many
ways this transmission can be blocked.
5. Draw a flow-chart showing the events that would occur when the pressure acting on
the baroreceptors suddenly drops below normal.
6. A fall in PO_2 or an increase in PCO_2 can both stimulate respiration. What is their
difference?

-End of Questions-