Answer five of the following six questions (20% each).

work to cure male erectile dysfunction?

2. Describe the role of plasma membrane G proteins and at least four different signal

1. Describe the mechanism of erection of penis. How does sildenafil citrate (viagra)

3. Describe the types of memory.

pathways coupled to the G protein.

- 4. When there is a low oxygen supply to the tissues, erythrocyte will be produced to restore blood oxygen supply. Describe the sequential events of this homeostatic mechanism including organ/tissue and hormone involved.
- 5. Describe the effects of Pco₂, H⁺ concentration, 2,3-diphosphoglycerate (2,3-DPG) concentration and temperature on the binding affinity of oxygen to hemoglobin.
- 6. List the directional changes that occur during exercise for all relevant cardiovascular variables.