

BISC 455 – Example questions (for mid-term)

Generally, 3-4 mark questions require short answers of one-third to one-half page, or in the space provided (depending on your hand-writing)

You can use annotated diagrams, point form, or long-hand answers, provided you supply the required level of detail!!)

Q. Castrati have high pitched but very powerful voices. What is the hormonal basis of this effect? (3 marks)

Q. What were the three main conclusions derived from Berthold's 'first' endocrine experiment? (3 marks)

Q. Give an example of an androgenic and an anabolic effect of androgens i.e. one example of each (2 marks)

Q. Given that steroids occur naturally in the body why do anabolic steroids have so many adverse effects? (2 marks)

Q. Describe the endocrine control of homeostasis for either a) plasma calcium, or b) plasma glucose - use a diagram (4 marks).

Q. What is the difference between a first-order and second-order neuroendocrine system? (3 marks).

Q. For either a) protein hormones, or b) steroid hormones, use specific examples to either support or oppose the following statement: "Humans are still simple slaves to their hormones" (4 marks).

Q. Give an example of EACH of the following (1 mark each):

a) a cell-surface steroid hormone receptor

b) a protein hormone that might regulate human relationships
