

Mid semester autumn 2018

LS 4102

Total marks: 20

Tutor: Arnab Gupta

Date: 18th Sept 2018

1. Using an illustration, describe the steps in activation of trypsinogen to trypsin. Which endocrine gland secretes trypsin? (4+1)
2. *When someone hiding in a corner of a dark room yells "Boo!" at you or when you come upon a large growling dog along a wooded pathway, which endocrine secretion kicks-in? Explain its mechanism of response. Using bullet points mention 4 changes that occurs in your body in response to the above threats. (1+2+2)*
3. True or False/answer in 1 sentence (1+1+1+2)
 - a. Transducin is the GPCR linked to vision ___T/F___
 - b. Posterior pituitary develops from Neural outgrowth from the Hypothalamus ___T/F___
 - c. What are chylomicrons?
 - d. Based on evolution name the present-day ear ossicles that developed from primitive: Quadrate and Hyomandibular.
4. You have recently discovered an olfactory receptor. Design an algorithm/flowchart to identify its specific ligand. (5)

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18/9/18