Biological Level of Analysis Essay Prompts

1) Outline Three principles that define the biological level of analysis.

2) Explain how principles that define the biological level of analysis may be demonstrated in research.

3) Discuss how and why particular research methods are used at the biological level of analysis *(for example, experiments, observations, correlational studies).*

4) Discuss ethical considerations related to research studies at the biological level of analysis.

5) Explain one study related to localization of function in the brain *(for example, Wernicke, Broca,Gazzaniga and Sperry).*

6) Using one or more examples, explain effects of neurotransmission on human behaviour *(for example, the effect of noradrenaline on depression).*

7) Using one or more examples, explain functions of two hormones in human behaviour.

8) Discuss two effects of the environment on physiological processes *(for example, effects of jet lag on bodily rhythms, effects of deprivation on neuroplasticity, effects of environmental stressors on reproductive mechanisms).*

9) Examine one interaction between cognition and physiology in terms of behaviour *(for example, agnosia, anosognosia, prosapagnosia, amnesia).* Evaluate two relevant studies.

10) Discuss the use of brain imaging technologies *(for example, CAT, PET, fMRI)* in investigating the relationship between biological factors and behaviour.

11) With reference to relevant research studies, to what extent does genetic inheritance influence behaviour?

12) Examine one evolutionary explanation of behaviour.

13) Discuss ethical considerations in research into genetic influences on behaviour.