

Week 4 Midterm Essay Exam

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Instructions

Answer the questions below completely and fully for full credit. This requires a minimum of two substantive paragraphs for each answer with a minimum total of 300 words for the combined paragraphs (not including the references). Use your learning resources and outside academic references (not Wikipedia!) to answer the questions completely. Support your answers with source credits (citations and references). Use APA formatting for all your work.

- Describe the recent finds on the "Nature-Nurture Controversy." How do evolutionary theory (evolutionary biology and evolutionary psychology) and the study of genetics fit in to this discussion? What are the implications for the biopsychologist? And finally, is there a controversy at all?
- Describe the process of action potential conduction and neurotransmission from one neuron to another, both electrically (including saltatory conduction) and chemically. Describe how a cell fires an action potential and be sure to address which structures are involved in neurotransmission. Discuss reuptake and enzymatic degradation (breakdown) in the context of the appropriate neurotransmitters.
- Trace in detail the structure and function of the visual system from the physical stimuli (light waves), to the structure of the eye and through the corresponding brain structures until it is processed as visual information. You will need to compare photoreceptors in darkness to photoreceptors receiving light and describe how light energy is transduced into neural signals. Describe how the trichromatic and opponent-process theory explain how light of different wavelengths is converted into color information.
- Discuss some of the methodological approaches that can be used to examine the influence of multiple genes on behavior. Then discuss what transgenic animals are and how they are produced.
- What is the medial forebrain bundle? Discuss the evidence for and against its involvement in reward. In addition, review the evidence showing that the brain's dopamine pathways are critically involved in pleasure and reward.
- What is the monoamine theory of depression? What evidence supports this hypothesis as a cause of affective disorder? It generally takes 2-3 weeks of chronic treatment before an antidepressant begins to have a clinical benefit, yet the drug's pharmacological effect (for example, its inhibition of MOA, or reuptake) is immediate. What synaptic mechanisms may underlie this time lag?
- Critically evaluate the roles of the lateral hypothalamus and ventromedial hypothalamus in hunger and satiety. What other brain sites are known to be involved in eating behavior? Can this be explained in terms of a homeostatic model? What evidence shows that non-homeostatic mechanisms also contribute to feeding?
- Describe the brain structures and anatomical pathways that make up the extrapyramidal and pyramidal motor systems. What are the main functions of these two systems? What regions in the cerebral cortex are known to be involved in movement? How do these areas contribute to the production of motor behavior?
- Describe the dorsal and ventral streams. Describe two theories of their functional difference and the evidence on which each theory is based.
- Describe the main structures of the brain stem, the midbrain, and forebrain, including the basal ganglia, the limbic system and the cerebral cortex. What functions and behaviors are these regions known to control?

Due Date

Mar 28, 2021 11:59 PM

▼ Hide Rubrics

Rubric Name: PSYC325 Week Four Midterm exam V2

Criteria	Exemplary	Accomplished	Developing	Beginning	Did not attempt	Criterion Score
Question #1	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #2	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #3	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #4	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #5	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #6	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #7	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #8	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #9	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Question #10	8 points Student answered the question completely and correctly with 300 words of analysis; adding examples where required.	6.8 points Student answered the question mostly correctly and completely with 300 words of analysis; adding examples where required. At times description lacks coherence.	6 points Student answered the question marginally correctly and completely with 300 words of analysis; adding examples where required. Sufficient details and supporting evidence are lacking.	5.2 points Does not answer the question correctly or completely, lacking 300 words of analysis, and did not include examples where required.	0 points Student did not attempt this portion of the assignment.	/ 8
Peer-Reviewed Articles	10 points Student provides an accurate, thorough analysis of scholarly peer-reviewed articles pertaining to the essay questions	8.5 points Student provides a mostly accurate analysis of scholarly peer-reviewed articles pertaining to the essay questions. At times the description lacks coherence.	7.5 points Student provides a marginal analysis of scholarly peer-reviewed articles pertaining to the essay questions. Sufficient details and supporting evidence are lacking.	6.5 points Does not analyze scholarly peer-reviewed articles pertaining to the essay questions.	0 points Student did not attempt this portion of the assignment.	/ 10
Formatting/Writing	10 points Work is presented in a logical and coherent way. Writing is clear, articulate, and error free. Citations are composed in proper format with few or no errors. The student uses a preponderance of original writing (i.e., use of own words and proper paraphrasing) and uses direct quotations minimally and only when necessary/or appropriate.	8.5 points Work is grammatically sound with a few minor errors. Citations are composed in the proper format with some errors. The student uses original writing (i.e., use of own words and proper paraphrasing) and uses direct quotations minimally and only when necessary/or appropriate.	7.5 points Work contains frequent grammatical errors. Citations are inaccurate or improperly formatted. The Assignment may reflect an underuse of original writing and an overuse of directly quoted content.	6.5 points Work does not demonstrate appropriate undergraduate level writing. It reflects an underuse of original writing and an overuse of directly quoted content.	0 points Student did not attempt this portion of the assignment.	/ 10
Total						/ 100

Overall Score

Exemplary 90 points minimum	Accomplished 80 points minimum	Developing 70 points minimum	Beginning 60 points minimum	Did not attempt 0 points minimum
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