

Final TERM EXAM. January 2023



المستوى االرابع (لانحة الساعات المعتمدة) برنامج البيولوجيا الجزينية المعتمدة) البيولوجيا الجزينية للاعصاب (405 ح)

	Date: 16/ 1 / 2023 Tin	ne: 2 Hour	Mark: 90	
			الامتحان في ثلاث ورقات	
	Question One (30 Marl	<u>k):</u>		
	Complete the following:			
	-The nervous system has three functions:1,23			
	-The forebrain parts include:456			
	-The brain consists of two types of tissues:78			
	-The specialized cells of the nervous tissue are called9 while			
	the supportive cells are called10			
	-Axon arises from11 of soma of neuron.			
-There are to types of Astrocytes:12,13				
-Depending on the receptor, binding of neurotransmitters may cause				
14,15, or16of the postsynaptic neuron.				
-Neurotransmitters are removed through one of three -				
mechanisms:171819				
-Glutamate is synthesized within the brain from20 and via				
21 (from glial cells in the brain).				
- Synapses can be either22 or23 and are essential to the				
24 of neural activity.				
-A molecule that binds to a receptor is called a25				
-Most proteins26 into unique 3D structures. The shape into which				
a protein naturally folds is known as27				
-A synapse is a combination of:282930				
-				

Question Two (20 Marks):

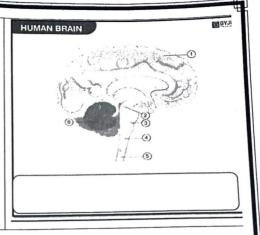
Mention the scientific term:

- 1-.....is a fluid that circulates within the skull and spinal cord, filling up hollow spaces on the surface of the brain.
- 2-.....is a cylindrical bundle of nerve fibers and associated tissues enclosed within the spine and connect all parts of the body to the brain.
- 3-.....is the lateral part of the nervous system that develops from the central nervous system which connects different parts of the body with the CNS.
- 4-.....Tapering and branching extension of soma of neuron.
- 5-.....are phagocytic cells. They engulf pathogens. Thus, serve a defensive role within the nervous system.
- 6-.....unique junction that mediates information flow from one neuron to another or effector cell.
- 7-.....a signaling molecule secreted by a neuron to affect another cell across a synapse.
- 8-.....This is the most common excitatory neurotransmitter of your nervous system.
- 9-..... are your body's natural pain reliever. They play a role in our perception of pain.
- 10-.....are biological transducers that convert energy from both external and internal environments into electrical impulses.

Question Three (20 Marks):

1-Mention the name of the parts numbered from 1 to 6.

2-Mention the function of each part.



Question Four (20 Marks):

Write on:

1-Sensory memory

2-Short-term memory

With Best Wishes

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