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## PARUL UNIVERSITY FACULTY OF ARTS B.Arts. Winter 2019-20 Examination

Semester:3 Subject Code: 15105201 Subject Name: Biological Basis of Behaviour	er 2017-20 Examination	Date:22-11-2019 Time:10:30am To 01:00pm Total Marks: 60
Instructions:		
1. All questions are compulsory.		
2. Figures to the right indicate full marks.		
3. Make suitable assumptions wherever necessary.		
4. Start new question on new page.		
Q.1 Do as directed.		(0
A. Multiple choice type questions. (Each of 0.		
<b>1. 1.</b> Schwann cells in the peripheral nervou	s system, forming a protectiv	ve covering called a
(a) Dendrite	(c) Axon	
(b) Myelin Sheath	(d) Node of Ranvier	.1
2. Which neurons have more than one neuri	te, usually one axon and one	or more than one
dendrites.		
(a) Bipolar	(c) Unipolar	
(b) Association neurons	(d) Multi-polar neurons	
<b>3.</b> part of hindbrain affects respi	•	expression
(a) Medulla	(c) Pons	
(b) Cerebellum	(d) All of the above	
4. The hypothalamus regulates		
(a) Heart rate	(c) Water level	
(b) Body temperature	(d) All of the above	
5. The group of brain structure the influence individual's survival, is known as the		consequently the
(a) cerebral cortex	(c) reticular formation	
(b) limbic system	(d) endocrine system	
6. Chemicals secreted by neurons that provi	• •	ismission are
(a) Action potential	(c) Neurons	
(b) Neurotransmitter	(d) Hormones	
7. The average weight of human brain is		
(a) 1.26 kilograms	(c) 1.36 kilograms	
(b) 1.46 kilograms	(d) 1.56 kilograms	
8. Autonomic nervous system is responsible		
(a) Spinal and Cranial nerves	(c) Connects nerves system	to
	involuntary action	1
(b) Brain and spinal cord	(d) Voluntary actions of m	
9. The neurotransmitter associated with the	-	
(a) Gamma amino butyric acid	(c) Acetylcholine	
(b) endorphins	(d) Dopamine	
<b>10.</b> Mesencephalon is a sub division of		
(a) Mid brain (b) East brain	(c) Hind brain	
(b) Fore brain 11. The brain on d the next of the CNS are form	(d) Cerebellum	h
<b>11.</b> The brain and the rest of the CNS are furt		бу
(a) cerebrospinal fluid (b) Dura mater	(c) Spinal Bone	
(b) Dura mater	(d) pia mater	
<b>12.</b> Depression and suicide is often associated		
(a) Serotonin (b) Donamina	(c) Acetylcholine (d) Nitrie Ovide	
(b) Dopamine <b>13</b> Loss of <b>P</b> lood volume causes thirst	(d) Nitric Oxide	
<b>13.</b> Loss of Blood volume causesthirst.	(a) Hupovolomia Thirst	
<ul><li>(a) Sodium specific craving</li><li>(b) Osmotic thirst</li></ul>	<ul><li>(c) Hypovolemic Thirst</li><li>(d) None of the above</li></ul>	

(08)

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<b>14.</b> Which part of brain is control area	for feeding.	
(a) Lateral Hypothalamus	(c) Cerebrum	
(b) Brain Stem	(d) None of the above	
<b>15.</b> take care for overeating and we	eight gain.	
(a) Lateral Hypothalamus	(c) Ventromedial Hypothalamus	
(b) Brain Stem	(d) None of the above	
16. The brain and the rest of the CNS a	re further protected against injury by	
(a) Muscles	(c) Cerebrospinal fluid	
(b) Brain Stem	(d) None of the above	
B. Define the Following. (Each of 01 ma	rk)	(07)
1. Neurotransmitters	,	
2. The Spinal Cord		
3. Serotonin		
4. Oxytocin		
5. Give two types of long term Memory	4	
<b>6.</b> Rod of Ranvier		
7. Cerebellum		
Q.2 Answer the following.		
A. Name and explain the lobes in human b	orain?	(04)
<b>B.</b> Name and types of Neuron.		(04)
C. Explain Cerebral Cortex.		(04)
L	OR	~ /
C. Explain Norepinephrine (Noradrenalin)	) hormone.	(04)
Q.3 Answer the following.		× /
A. Draw Neurons and explain parts of neu	rons.	(05)
<b>B.</b> Explain Spinal Pathways.		(05)
C. Explain Sleep stages with relation to ar	ousal, emotion and attention	(05)
1 1 0	OR	· · · ·
C. Explain Thalamus and Hypothalamus.		(05)
Q.4 Answer the following.		· · · ·
A. Explain Nerve Impulse Transmission in	n detail.	(06)
<b>B.</b> Explain Chemical sense or multiple cau		(06)
C. Explain Central Nervous System in det		(06)
1	OR	(-0)
C. Chemical sense or Physiological mecha		(06)

C. Chemical sense or Physiological mechanism of hunger.
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