Seat No:	Enrollment No:
Jene 1101	

## PARUL UNIVERSITY

## **FACULTY OF ARTS**

## **B.Arts Summer 2018 – 19 Examination**

Semester: 3 Date: 01/05/2019

**Subject Code: 15105201** Time: 10.30 am to 1.00 pm

**Subject Name: Biological Basis of Behavior Total Marks: 60** 

## **Instructions:**

- 1. All questions are compulsory.
- 2.
- 3.
- 4.

Do as directed.		(
Multiple choice type questions. (Each	of 0.5 mark)	Ì
1. 1. Schwann cells in the peripheral r	nervous system, forming a protective covering called a	
(a) Dendrite	(c) Axon	
(b) Myelin Sheath	(d) Node of Ranvier	
<ol><li>Which neurons have more than one dendrites.</li></ol>	neurite, usually one axon and one or more than one	
(a) Bipolar	(c) Unipolar	
(b) Association neurons	(d) Multi-polar neurons	
<b>3.</b> part of hindbrain affects	s respiratory movement and facial expression	
(a) Medulla	(c) Pons	
(b) Cerebellum	(d) All of the above	
<b>4.</b> The hypothalamus regulates		
(a) Heart rate	(c) Water level	
(b) Body temperature	(d) All of the above	
individual's survival, is known as t		
(a) cerebral cortex	(c) reticular formation	
(b) limbic system	(d) endocrine system	
<del>-</del>	provide the means of synaptic transmission are	
(a) Action potential	(c) Neurons	
(b) Neurotransmitter	(d) Hormones	
7. The average weight of human brain		
(a) 1.26 kilograms	(c) 1.36 kilograms	
(b) 1.46 kilograms	(d) 1.56 kilograms	
<b>8.</b> Autonomic nervous system is response		
(a) Spinal and Cranial nerves	(c) Connects nerves system to	
	involuntary action	
(b) Brain and spinal cord	(4)	
	th the onset of anxiety is known as	
(a) Gamma amino butyric acid	taran da di da	
(b) endorphins	(d) Dopamine	
<b>10.</b> Mesencephalon is a sub division of		
(a) Mid brain	(c) Hind brain	
(b) Fore brain	(d) Cerebellum	
11. The brain and the rest of the CNS a		
(a) cerebrospinal fluid	(c) Spinal Bone	
(b) Dura mater	(d) pia mater	
<b>12.</b> Depression and suicide is often asso		
(a) Serotonin	(c) Acetylcholine	
(b) Dopamine	(d) Nitric Oxide	
13. Loss of Blood volume causes		
(a) Sodium specific craving	(c) Hypovolemic Thirst	
(b) Osmotic thirst	(d) None of the above	

<b>14.</b> Which part of brain is control area	a for feeding.	
(a) Lateral Hypothalamus	(c) Cerebrum	
(b) Brain Stem	(d) None of the above	
15take care for overeating and w	veight gain.	
(a) Lateral Hypothalamus	(c) Ventromedial Hypothalamus	
(b) Brain Stem	(d) None of the above	
16. The brain and the rest of the CNS	are 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 m	ark)	(07)
1. Neurotransmitters		
2. The Spinal Cord		
3. Serotonin		
<b>4.</b> Oxytocin.		
<b>5.</b> Give two types of long term Mem	ory	
<b>6.</b> Rod of Ranvier		
7. Cerebellum		
Q.2 Answer the following.	1	(0.4)
<b>A.</b> Name and explain the lobes in human	brain?	(04)
<b>B.</b> Name and types of Neuron.		(04)
C. Explain Cerebral Cortex.	O.D.	(04)
CELLAN CLICATION	OR	(0.4)
C. Explain Norepinephrine (Noradrenali	n) normone.	(04)
Q.3 Answer the following.		(O.E.)
<b>A.</b> Draw Neurons and explain parts of ne	urons.	(05)
<b>B.</b> Explain Spinal Pathways.	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(05)
<b>C.</b> Explain Sleep stages with relation to a		(05)
C. F., 1	OR	(05)
C. Explain Thalamus and Hypothalamus	<b>}.</b>	(05)
Q.4 Answer the following.	1 d.a11	(0.6)
A. Explain Nerve Impulse Transmission		(06)
B. Explain Chemical sense or multiple ca	•	(06)
C. Explain Central Nervous System in de	OR	(06)
C. Chemical sense or Physiological mech		(04)
C. Chemical sense of Fhysiological mech	ianism of nunger.	(06)