Seat No:	Enrollment No:
Deat 110:	Lini onnicht 110:

## PARUL UNIVERSITY FACULTY OF ARTS

## B.A. Winter 2017 – 18 Examination

Semester: 3	Date: 04/12/2017

Subject Code: 15105201 Time: 10:30 am to 1:00 pm

Subject Name: Biological Basis of Behaviour Total Marks: 60

Inst		

- 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.

0.1	(A) Do as directed	(08
V.1	(A) Do as un cereu	(0

- 1. The division of the peripheral nervous system that controls automatic, involuntary physiological processes is known as the:
  - a. Central nervous system
- b. Peripheral nervous system
- c. Autonomic nervous system
- d. sympathetic nervous system
- 2. The glands of endocrine system exert their function through chemical called:
  - a. Action potential

b. Neurons

c. Reflex

- d. Hormones
- 3. The endocrine gland, known as "master" gland, that regulates many of the other Endocrine glands if the.
  - a. Gonads

b. Testes

c. Adrenal glands

- d. Pituitary glands
- 4. A white fatty substance that forms sheaths around certain axons and increases the speed of neural impulses is known as:
  - a. Dendrites

b. Axons

c. Glial cells

- d. Myelin
- 5. Chemicals secreted by neurons that provide the means of synaptic transmission are:
  - a. Action potential

b. Neurons

c. Neurotransmitter

- d. Hormones
- 6. The disease which is marked by movement disorders caused by the destruction of dopamine neurons in the brain is known as:
  - a. Parkinson's disease

b. Alzheimer's disease

c. Reticular formation

- d. Hemispheric specialization
- 7. The neurotransmitter associated with the onset of anxiety is known as:
  - a. Gamma aminobutyric acid
- b. acetylcholine

c. dopamine

- d. endorphins
- 8. The group of brain structure the influences emotion, motivation, and consequently the individual's survival, is known as the:
  - a. cerebral cortex

b. reticular formation

c. limbic system

- d. endocrine system
- 9. Hormones are substances that fall into two basic categories:\_\_\_\_\_
  - a. Stimulator hormones and receptor
- b. Protein and sugar

hormones

hormones

- c. Non-steroid hormones and steroid
- d. Inter-organ and inter-organism

The hymothelemus megulates

- 10. The hypothalamus regulates\_\_\_\_\_
  - a. Heart rate

b. Body temperature

c. Water balance

d. All of the above

	11.	The posterior pituitary stores and secretes _		·	
		a. ADH and Oxytocin	b.	Adrenaline and insulin	
		c. Estrogen and testosterone	d.	Aldosterone and cortisone	
	12.	The adrenal glands consist of			
		a. The inner and outer layer of the kidney	b.	The inner medulla and the outer cortex	
		c. Lower adrenal and upper paradrenal sections	d.	ATCH and BTCH section	
	13	the average weight of human brain is			
	13.	a. 1.26 kilograms		1.36 kilograms	
		c. 1.46 kilograms	d.		
	1/1	part of hindbrain affects respira			
	14.	a. Medulla	b.	Pons	
		c. Cerebellum	d.	all of the above	
	15	is responsible for motor control and			
	13.	a. Basal ganglia			
		c. Both a and b		Limbic system  None of the above.	
	1.6		d.		
	10.	theory of emotion considered	emonor	is to he the perceptions of summing-induced	
		bodily changes.	1.	Caratifaca di cara	
		a. Cannon-bard theory	b.	Cognitive- theory	
Λ1	(D)	c. James-Lange theory	d.	Perceptual theory	(07)
Q.1		Define the following			(07)
		Emotion			
		Arousal			
		Attention			
		Sleep			
		Hormones			
		Inhibition			
		Antagonist			(4.5)
Q.2		nswer the following			(12)
		Explain neuroplasticity in brief?	0		
		Name and explain the lobes in human brain	1?		
	3.	Describe Peripheral nervous system?			
		5100	OR		
		Difference between cranial nerve and spina	l nerves		
Q.3		nswer the following			(15)
		What is difference between sympathetic pa		•	
		Discuss the key concepts and process of ele		mical activity in neuron	
	3.	Explain Neurophysiology of emotion in det			
			OR		
		Name and explain 6 sleep disorder.			
<b>Q.4</b>	An	nswer the following			<b>(18)</b>
-		Draw the diagram of human brain and expl		etail.	
		Discuss about Neurophysiology of arousal?	?		
	3.	Explain Neurophysiology of sleep?			
			OR		
	4.	Draw the diagram of neuron and explain in	detail		