V PER W

2014

(5th Semester)

PSYCHOLOGY

SIXTH PAPER

Biological Psychology

Full Marks: 55

Time: 2 hours

PART : B-DESCRIPTIVE)

Contrapped to be because (Marks: 35)

The figures in the margin indicate full marks for the questions

1. What is biological psychology? Briefly describe any two methods of studying biological psychology.

What is neuroimaging? Explain any two 2+5=7neuroimaging techniques.

2. Explain the structure and function of the 31/4+31/4=7 peripheral nervous system.

What is neuron? Illustrate different types of neuron with suitable diagrams. 2+5=7Tellenotes (

3. Discuss the process of communication at the synapse.

between acetylcholine Differentiate dopamine.

4. Discuss the workings of the adrenal glands.

What are different types of hormonal gland specialized for secretion?

5. Explain the brain mechanisms in learning and memory. (Change advant)

What are the visceral factors in emotional behavior?

out you produced Sychholman in challe.

2. Explore the structure and function of the

G15-250/124a

(Turn Over)

V/PSY (vi)

7

postganglionic neurons by the release of

neurons

stimulate

the

preganglionic

acetylcholine (ACh)

acetylcholinesterase (AChE)

insulin

epinephrine

2014

(5th Semester)

PSYCHOLOGY

SIXTH PAPER

(Biological Psychology)

(PART : A—OBJECTIVE) (Marks : 20)

The figures in the margin indicate full marks for the questions

SECTION-A

(Marks : 5)

Put a Tick (✓) mark against the correct answer in the brackets provided: 1×5=5

- The method of getting the tip of an electrode or cannula to a precise location in the depths of an animal's brain is known as
 - (a) sham lesion
 - (b) stereotaxic surgery (
 - c) excitotoxic lesion (
 - (d) brain lesion ()

3.	The difference in voltage between the positive outside and the negative inside of the membrane of all living cells is called

(a) action potential ()

(b) polarized condition ()

(c) resting potential ()

(d) graded potential ()

V/PSY (vi)/124

2. The

 glands secrete norepinephrine and epinephrine when stimulated by sympathetic nerves of the ANS.

(a) Pancreas ()

(b) Adrenal cortex ()

(c) Adrenal medulla ()

(d) Posterior pituitary ()

 The — organizes behavioral, autonomic and hormonal response to a variety of situations, including those that produce fear or anger.

(a) amygdala

(b) pheromone

(c) serotonin

(d) prefrontal cortex ()

SECTION-B

(Marks: 15)

Write short notes on the following

3×5=15

1. PET scans

2. Forebrain

3. Neurotransmitters

4. Endocrine and exocrine glands

5. ANS and emotions