

**BSC (HONS.) IN PSYCHOLOGY  
PLU3310 BIOLOGICAL PSYCHOLOGY, LEVEL 3  
FINAL EXAMINATION PAPER-2018/2019- SEMSETER II**

REGISTRATION NO: .....

**SECTION 2: SHORT ANSWER QUESTIONS (60 MARKS)**

Choose 04 out of the 06 questions given below and write answers only within the space provided.

**I.** I). Identify and write the correct answer matching with the statements. (10 marks)

Plato, Carl Wernicke, Rene Descartes, Hippocrates, Paul Broca, Aristotle

- i. .... stated that the brain was the seat of human sensations, emotions and intelligence.
- ii. .... identified the area in the brain related to speech comprehension.
- iii. .... believed that the mind is in the heart.
- iv. .... proposed mind-body dualism interacting at the pineal gland.
- v. .... found an area in the brain that involved in speech production.

**II).** Describe the following techniques that are used to investigate structural and functional aspects of the nervous system.

i. Computed Tomography (CT) (2.5 marks)

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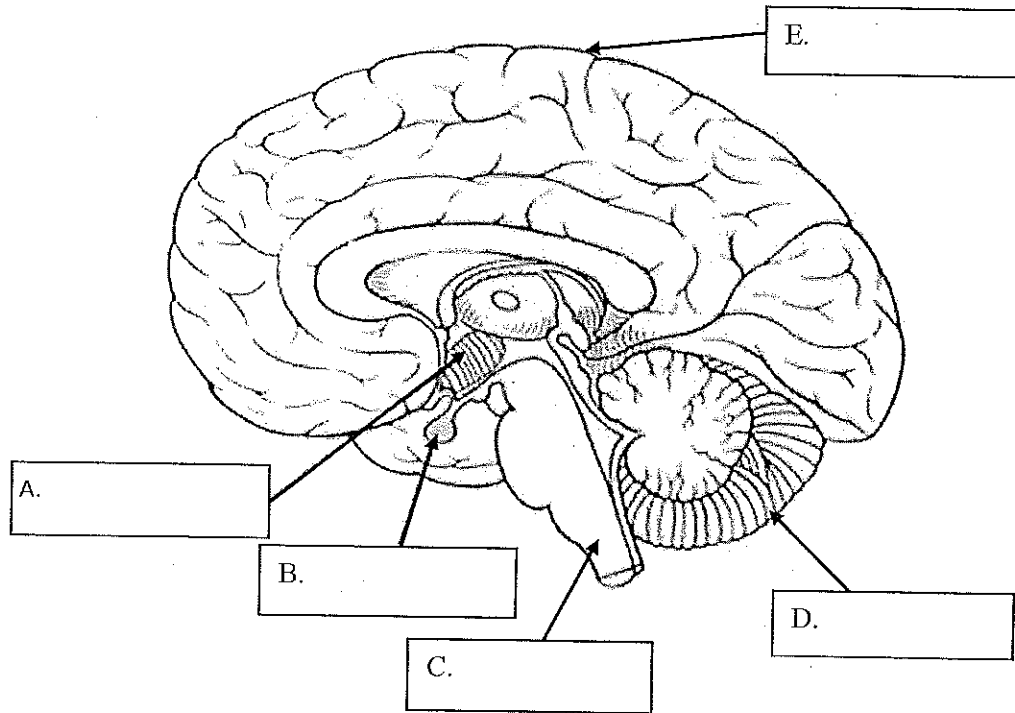
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ii. Functional Magnetic Resonance Imaging (fMRI) (2.5 marks)

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.....  
.....

2. D). Identify the following areas (A – E) of the brain. (5 marks).



II). Briefly describe the two main functions of the spinal cord. (5marks)

i. ....  
.....

ii. ....  
.....

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**III).** Neurotransmitters can be classified based on their function and mechanism of action. Identify and write the correct answer matching with the statements. (5 marks).

indirect neurotransmitters, Glutamate, direct neurotransmitters, inhibitory neurotransmitters, excitatory neurotransmitters, Dopamine

- i. Some neurotransmitters are called ..... because they depolarize neurons.
- ii. .... is the chemical messenger that involves in movement, working memory, learning, and moods.
- iii. Some neurotransmitters identified as ..... because they act through intracellular second-messenger molecules.
- iv. .... are neurotransmitters that decrease the rate of a neuron firing by hyperpolarization.
- v. Some neurotransmitters can be identified as ..... because they produce rapid responses in the postsynaptic cells by promoting changes in the membrane potential.

3. **I).** Hunger and thirst are considered as biological motives. However, hunger cannot be explained only by the biological component. There are learned and cognitive components of hunger. Name three factors related to food that trigger hunger motivation. (6 marks)

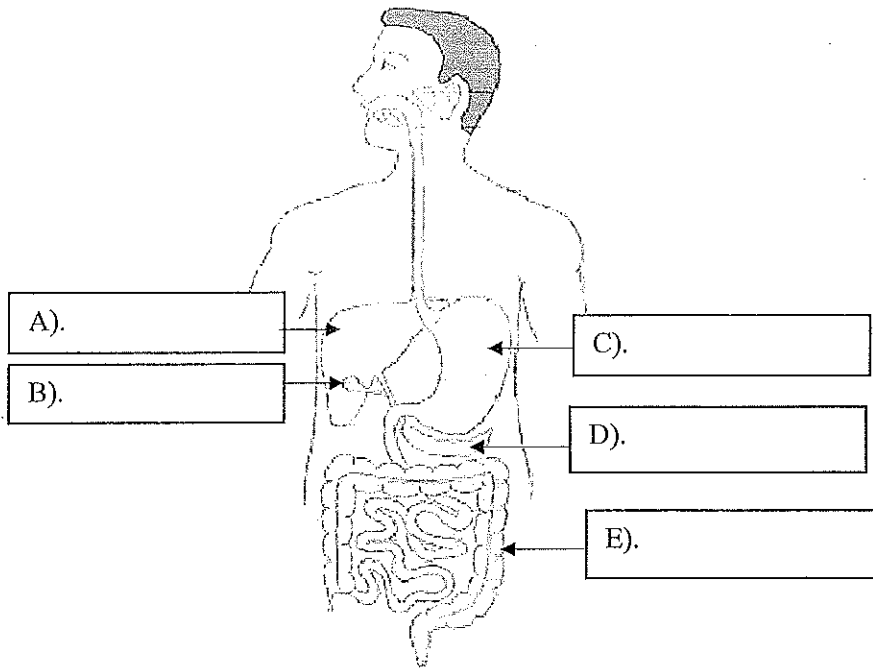
- i. ....
- ii. ....
- iii. ....

**II).** The hypothalamus regulates body water in two ways. What are they? (4 marks)

- i. ....
- ii. ....

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**III.** Identify the following organs and areas (A – E) of the human digestive system. (5 marks).



**4. I.** List three functions of the male reproductive system. (6 marks)

- i. ....  
.....
- ii. ....  
.....
- iii. ....  
.....

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**II).** List three functions of the female reproductive system. (6 marks)

- i. ....  
.....
- ii. ....  
.....
- iii. ....  
.....

**III).** List the main functions of the following hormones. (3 marks).

i. Follicle-stimulating hormone

.....  
.....

ii. Oxytocin

.....  
.....

iii. Prolactin

.....  
.....

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5. **I).** Name one hormone which is secreted from the following endocrine glands and its function. (10 marks).

Endocrine Gland	Hormone	Function
Hypothalamus		
Adrenal cortex		
Parathyroid		
Pancreas		
Thyroid		

- II).** List five exocrine glands. (5 marks).

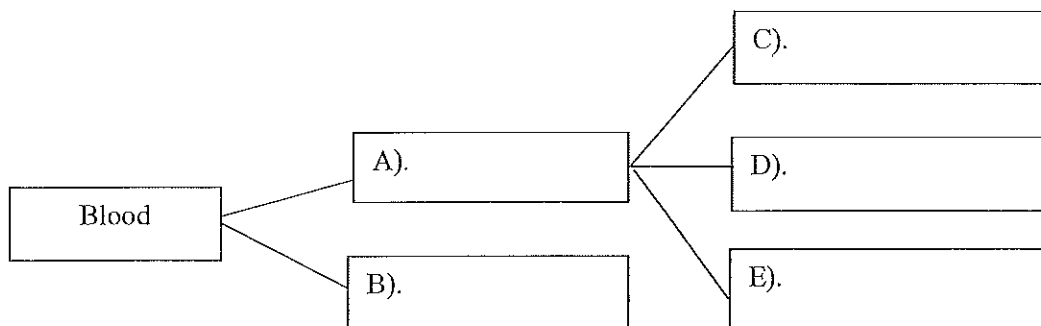
- i. ....
- ii. ....
- iii. ....
- iv. ....
- v. ....

- 6. I).** Name the four steps of the delivery of oxygen from the lungs to the bloodstream and the elimination of carbon dioxide from the bloodstream to the lungs. (4 marks)

- i. ....
- ii. ....
- iii. ....
- iv. ....

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**II). Identify the components of blood (A -- E). (5 marks).**



**III). Briefly describe three functions of blood. (6 marks).**

i. ....  
.....

ii. ....  
.....

iii. ....  
.....

-----END OF QUESTION PAPER-----

