

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PSYCHOLOGY & COUNSELLING
2022/2023 – SEMESTER II – FINAL EXAMINATION



BSC (HONS) IN PSYCHOLOGY
PLU3310 – BIOLOGICAL PSYCHOLOGY – LEVEL 3
FINAL EXAMINATION PAPER
DURATION: 03 HOURS

DATE: 19.09.2023

TIME: 9.30 am – 12.30 pm

SECTION 2: STRUCTURED ESSAY QUESTIONS (60 MARKS)

Choose 04 out of the 06 questions given below and answer using the provided answer sheets

2.1

- a) Describe the two (02) major components of the immune system? Which system acts as the first line of defence? (5 marks)
- b) Briefly describe what is phagocytosis? Which cells are responsible for this action? (5 marks)
- c) Identify the five (05) types of white blood cells. (5 marks)

2.2

- a) Identify two (02) hormones released by each of these glands. (7 marks)

Gland	Hormones
Hypothalamus	
Anterior Pituitary	
Posterior Pituitary	

- b) Explain four (04) differences between endocrine gland and the exocrine gland. (8 marks)

2.3

- a) Identify the three (03) types of chemical structures of hormones. (3 marks)
- b) Name the six (06) types of tactile receptors in the skin. (12 marks)

2.4

- a) Identify the four (04) nucleotides in DNA and RNA. (5 marks)
- b) Describe the following terms. (10 marks)
- i. Dominant Allele (2 marks)
 - ii. Recessive Allele (2 marks)
 - iii. Monozygotic Twin (2 marks)
 - iv. Dizygotic Twin (2 marks)
 - v. Homozygous (2 marks)

2.5

- a) Describe the three (03) types of joints in the human body? (3 marks)
- b) Identify the six (06) classes of synovial joints? (12 marks)

- 2.6 State the three (03) laws of Mendel and briefly explain them. (15 marks)

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