

ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW
MBBS DEGREE EXAMINATION - 1st PROF PROFESSIONAL REGULAR
EXAM - AUGUST 2024
PHYSIOLOGY -PAPER- II

Time: 3 Hrs

Max. Marks: 100 Marks (80 Theory + 20 MCQs)

NOTE:

Attempt all questions.

This question paper consists of two sections: Section A - Multiple Choice Questions and Section B - Theory Questions.

Both sections have different paper codes. Write the correct paper code on the respective sheet.

Write the correct MCQ paper set on the OMR sheet.

Answer MCQs on the provided OMR sheet and theory questions on the provided answer booklet.

SECTION B - THEORY QUESTIONS

PAPER CODE: 2411230002

Q.1 Long Answer Question

15 MARKS

Describe the connections and functions of Basal ganglia. Add a note on its applied aspects. (4+5+6 marks)

Q.2 Clinical Case Scenario based Structured Question

15 MARKS

A 4-year-old girl was brought to the OPD by her mother with complaints of moon face, weight gain, irritability, insomnia, and bruises on the skin. The girl was diagnosed with nephrotic syndrome a year ago and has been taking steroids since then.

a) What is the likely cause of the present symptoms? (3 marks)

- b) Explain the physiological actions of glucocorticoids. (6 marks)
- c) Describe the Hypothalamo-Pituitary-Adrenal axis. (6 marks)

Q.3 Short Note Question (Within 500 Words)**5 x 6 = 30 MARKS**

- a) Explain the role of the kidney in acid-base balance.
- b) Factors affecting Glomerular Filtration Rate.
- c) Endometrial cycle.
- d) Visual pathway.
- e) Role of the skin in thermoregulation.

Q.4 Short Answer Questions (Within 100 Words)**5 x 4 = 20 MARKS**

- a) Brown-Sequard Syndrome
- b) Diabetes Insipidus
- c) Functions of Sertoli Cells
- d) Functions of the Middle ear
- e) Role of Antioxidants
