

Question Paper

Exam Date & Time: 23-May-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FOURTH SEMESTER BSc. HEALTH SCIENCE DEGREE EXAMINATION - MAY 2024
SUBJECT: BHS-206 - INTRODUCTION TO HUMAN ANATOMY AND PHYSIOLOGY

Marks: 75

Duration: 180 mins.

SECTION A: ANATOMY (32 MARKS)

1. Short Answer Questions:

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|-----|-------------------------------------------------------------------|-----|
| 1A) | Classify the bones according to their shape. | (2) |
| 1B) | Write about the blood supply of small intestine. | (2) |
| 1C) | List the features of skeletal muscle. | (2) |
| 1D) | Name any 2 hormones released by anterior lobe of pituitary gland. | (2) |
| 1E) | Name the layers of pleura. | (2) |
| 1F) | Define fertilization. | (2) |
| 1G) | Describe the external features of spinal cord. | (2) |
| 1H) | Name the muscles forming quadriceps femoris. | (2) |
| 1I) | Name the parts of uterus. | (2) |

2. Short Essay Questions:

- | | | |
|-----|-------------------------------------------------------------------------------------------|-----|
| 2A) | Mention the sulci and gyri of superolateral surface of cerebrum. | (3) |
| 2B) | Name lobes of liver. Add a note on the extrahepatic biliary apparatus.
(1+2 = 3 marks) | (3) |
| 2C) | Mention the major relations of urinary bladder in female. | (3) |

Essay Question:

3. Describe the heart under the following headings:

- | | | |
|-----|--------------------|-----|
| 3A) | Chambers of heart. | (3) |
| 3B) | Blood supply. | (2) |

SECTION B: PHYSIOLOGY (18 MARKS)

Answer the following questions:

- 4A) List TWO functions of surfactant. (2)
- 4B) List one function each for juxtaglomerular cells and macula densa cells. (2)
- 4C) Describe the intestinal phase of regulation of pancreatic juice secretion. (2)
- 4D) Draw a neat labelled diagram of a reflex arc. (2)
- 4E) Describe the regulation of secretion of cortisol in the form of a flow chart. (2)
- 5) Define erythropoiesis. Mention any FOUR factors influencing erythropoiesis. (3)
- 6) Explain how the baroreceptors regulate an increase in mean arterial pressure with the help of a flow chart. (5)

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