

Question Paper

Exam Date & Time: 29-Apr-2024 (10:00 AM - 01:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

I Pharm D University Examination April 2024

Human Anatomy and Physiology [PHA 1.1T-S2]

Marks: 70

Duration: 180 mins.

A: Long Answer Questions

Answer all the questions.

Draw diagrams wherever necessary

- 1) Describe the anatomy of eye with a neat labelled diagram. (10)
- 2) Explain the conduction system of the heart. Describe the steps involved in cardiac cycle. (10)
- 3) With a neat, labelled diagram describe the structure of uterus. Illustrate the changes in concentrations of hormones and its effect on uterus and ovary. (10)

B: Short Answer Questions

Answer all the questions.

- 4) Explain the process of gamete formation in males (5)
- 5) Explain enzymatic digestion in the intestine (5)
- 6) Briefly, describe the anatomy of lungs (5)
- 7) Describe the functions of hypothalamus. (5)
- 8) Classify with examples the hormones of pituitary gland. Mention the functions of each hormone. (5)
- 9) Outline the hormonal regulation of tubular reabsorption. (5)

C. Give Reasons for the Following

Answer all the questions.

- 10) How does endurance training affect your skeletal muscle and cardiovascular system (2)
- 11) How does water-soluble hormones activate second-messenger system. (2)
- 12) Compare and contrast the structural features of cardiac and skeletal muscles (2)
- 13) What is the principle of urine pregnancy test kit (2)
- 14) Comment on natural blood doping (2)

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