

Question Paper

Exam Date & Time: 20-Jun-2024 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER BPT / B.Sc. PFT / BAOTT / B.Sc. MLT / B.Sc. RT / B.OPTOM / B.Sc. NMT / B.Sc. CND / B.Sc. CVT /
BOT / B.Sc. HIM / B.Sc. RRT & DT / B.Sc. MIT / B.Sc. EMT / BPO DEGREE EXAMINATION - JUNE 2024
SUBJECT: PHY1101 PHYSIOLOGY-I / PHY1103-PHYSIOLOGY / PHYS 101 - PHYSIOLOGY - I
(2021/2020/2016 RV SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

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| 1A) | Describe the mechanism of quiet inspiration and expiration. | (5) |
| 1B) | Describe the role of peripheral chemoreceptors in the regulation of respiration | (5) |
| 2A) | Mention the different types of plasma proteins and describe any FOUR functions of it. | (5) |
| 2B) | Describe the intrinsic pathway of blood coagulation in the form of a flow chart. | (5) |
| 3A) | Draw a graph of nerve action potential and give the ionic basis for the same. | (5) |
| 3B) | Describe the short term regulation of arterial blood pressure. | (5) |
| 3C) | Explain the role of calcium and ATP in the process of excitation contraction coupling in skeletal muscle. | (5) |
| 3D) | Describe the following refractory errors and their corrections with the help of labelled diagrams:
i) Myopia
ii) Hypermetropia | (5) |
| 5A) | Define cardiac output. Mention its normal value. | (2) |
| 5B) | Mention the parts of the conducting system of heart. | (2) |
| 5C) | Mention the types of body fluid compartments with their normal values. | (2) |
| 5D) | Define resting membrane potential. Give its normal value in a nerve. | (2) |
| 5E) | List any TWO functions of inner ear. | (2) |

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