

Question Paper

Exam Date & Time: 02-Jul-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

SECOND SEMESTER B.Sc. (RESPIRATORY THERAPY) DEGREE EXAMINATION - JUNE/JULY 2022
SUBJECT: PHYS 102 - PHYSIOLOGY - II
(2016 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

Long Essay:

- 1) Describe Any **FIVE** functions of Hypothalamus. (10)
- 2) Mention **THREE** actions of growth hormone. Describe the regulation of secretion of growth hormone. Mention any **FOUR** clinical features of acromegaly. (10)
(3+3+4 = 10 marks)

3. Write briefly on:

- 3A) Define menstruation. Describe the endometrial changes that occur during a normal menstrual cycle. (5)
(1+4= 5 marks)
- 3B) Define Glomerular Filtration Rate (GFR). Give its normal value. Explain the TWO factors regulating GFR. (5)
(1+1+3 = 5 marks)
- 3C) Name the important constituents of saliva and list its functions. (5)
(2+3 = 5 marks)
- 3D) Mention the cause and any FOUR clinical features of Cushing syndrome. (5)
(1+4 = 5 marks)

4. Short notes:

- 4A) Draw and label a reflex arc. (2)
- 4B) Enumerate Any TWO functions of cerebellum. (2)
- 4C) List Any TWO functions of sertoli cells. (2)
- 4D) List TWO functions of large intestine. (2)
- 4E) List Any FOUR substances reabsorbed in the PCT. (2)

-----End-----

Question Paper

Exam Date & Time: 25-Jul-2022 (10:00 AM - 12:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST SEMESTER BPT / BOT / B.Sc. (EXERCISE AND SPORTS SCIENCES) / B.Sc. PFT / B.Sc. (RESPIRATORY THERAPY) / B.Sc. MIT / B.Sc. RRT&DT / B.Sc. AOTT / B.Sc. HIM / B.Sc. RADIOTHERAPY TECHNOLOGY DEGREE
EXAMINATION - JULY 2022
SUBJECT: PHYS 101 - PHYSIOLOGY - I
(2016 RV SCHEME/2019 SCHEME)

Marks: 50

Duration: 120 mins.

Answer all the questions.

- 1A) Define blood pressure. Give its normal value. In the form of a flow chart, describe the short term regulation of blood pressure. (5)
- 1B) Draw a neat labeled diagram of ECG recorded from limb lead II. List any two clinical applications of ECG. (5)
- 2A) Define hemostasis. With the help of a flow chart describe the intrinsic mechanism of blood clotting. (5)
- 2B) Define erythropoiesis. Mention any four factors essential for erythropoiesis. Describe any two factors. (5)
- 3A) Describe the events during neuromuscular transmission in a skeletal muscle in the form of a flow chart. (5)
- 3B) Draw a labelled diagram of nerve action potential and mention the ionic basis for different phases. (5)
- 3C) Define light reflex. Draw a neat labeled diagram of visual pathway. (5)
- 3D) Name the muscles of inspiration. Describe the mechanism of normal inspiration in the form of flow chart. (5)
- 4A) Define resting membrane potential. Give the normal value in nerve. (2)
- 4B) List two functions of blood. (2)
- 4C) List any four properties of cardiac muscle. (2)
- 4D) Define hypoxia. Mention the types of hypoxia with examples. (2)
- 4E) List two functions of inner ear. (2)

-----End-----