

B.Sc. FITNESS AND LIFESTYLE MODIFICATION
(New Syllabus 2017-2018)

FIRST YEAR

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code: 802801

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail on the mechanism of urine formation.
2. Describe in detail on circulation of blood.
3. (a) Exchange of gases (b) Calcium metabolism

II. Write notes on:

(8 x 5 = 40)

1. Optic nerve and retina.
2. Cell division.
3. Functions of Liver.
4. Sliding filament theory.
5. Difference between Cardiac muscle, Skeletal muscle and Smooth muscle.
6. Spinal cord and its coverings.
7. Innervations of Bladder.
8. Lung Volumes and its capacities.

III. Short answers on:

(10 x 3 = 30)

1. Tissues and its types.
2. Define neuron and classify them.
3. Diabetes mellitus.
4. Lobes of the Lung.
5. Gigantism and dwarfism.
6. Name the hormones of adrenal gland.
7. Lobes of cerebrum.
8. Function of skin.
9. Difference between artery and vein.
10. Hilum of Kidney.

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PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code: 802801

Time: Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Describe in detail on cell division with labelled diagram.
2. Write a note on pituitary gland and its function.
3. (a) Renin angiotensin system (b) Valves of the heart

II. Write notes on:

(8 x 5 = 40)

1. Visual pathway.
2. Micturition reflex.
3. Glomerular filtration.
4. Spinal cord.
5. Types of muscles.
6. Enzymes of liver.
7. Broncho pulmonary segment.
8. Heart rate and cardiac output.

III. Short answers on:

(10 x 3 = 30)

1. Parts of nephron with diagram.
2. Cell organelles and its functions.
3. Taste buds.
4. Alveoli.
5. Cardiac cycle.
6. Draw a neat labeled diagram of a neuron.
7. Muscles of respiration.
8. Name the hormones of thyroid.
9. Functions of Spleen.
10. Components of conducting system.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0321]

MARCH 2021

Sub. Code: 2801

(AUGUST 2020 EXAM SESSION)

B.Sc. FITNESS AND LIFESTYLE MODIFICATION

FIRST YEAR (Regulation 2017-2018 & 2019-2020)

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 802801

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Define a cell and add a note on cell organelles.
2. (a) Micturition (b) Valves of the heart
3. Classification of muscle and mechanism of muscle contraction.

II. Write notes on:

(8 x 5 = 40)

1. Role of Kidneys in water balance.
2. Brain stem.
3. Functions of skin.
4. Optic nerve.
5. Broncho Pulmonary Segments.
6. Tissues and its types.
7. Glucocorticoids and mineralocorticoids.
8. Define neuron and classify neurons.

III. Short answers on:

(10 x 3 = 30)

1. Hormones of neurohypophysis.
2. What is tachypnoea?
3. Functions of Liver.
4. Gastrin.
5. Define Blood Pressure.
6. Nephron.
7. Types of cartilage.
8. Alveoli.
9. Lobes of cerebrum.
10. Functions of spleen.

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[AHS 0422]

APRIL 2022

Sub. Code: 2801

(FEBRUARY 2021& AUGUST 2021 EXAM SESSIONS)

B.Sc. FITNESS AND LIFE STYLE MODIFICATION

FIRST YEAR (Regulations 2017-2018 / 2019-2020 / 2020-2021)

PAPER I- ANATOMY & PHYSIOLOGY

Q.P NO. 802801

Time: Three Hours

Answer All questions

Maximum : 100 Marks

I. Elaborate on :

(3X10=30)

1. What are actin and myosin? Explain briefly about the mechanism of skeletal muscle contraction.
2. Draw a neat diagram of the urinary system. Explain briefly about the formation of urine.
3. Draw a neat labelled diagram of the respiratory system. Explain briefly about the bronchopulmonary segment.

II. Write Notes on :

(8X5=40)

1. What is a cell? Write about cell membrane.
2. Classify tissues. Write in brief about each type.
3. Difference between smooth and cardiac muscle.
4. Functions of skin.
5. Functions of liver.
6. Growth hormone.
7. Valves of the heart.
8. Micturition.

III. Short Answers on :

(10X3=30)

1. Pericardium.
2. Lobes of cerebrum.
3. Difference between artery and vein.
4. Functions of lymph.
5. Define erythropoiesis.
6. Functions of saliva.
7. Draw a neat labelled diagram of neuron.
8. Heart sounds.
9. Taste buds.
10. Define blood pressure.
