

[AHS 0321]

MARCH 2021

Sub. Code: 2601

(AUGUST 2020 EXAM SESSION)

B.Sc. RESPIRATORY THERAPY

FIRST YEAR (Regulation 2014-2015)

PAPER I – ANATOMY AND PHYSIOLOGY

Q.P. Code : 802601

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Draw a diagram and describe the external features of the heart. Add a note on its blood supply.
2. Describe the attachments, openings with structures passing through, nerve supply and actions of the diaphragm.
3. Discuss the transport of oxygen from the lungs to the tissues.

II. Write notes on:

(8 x 5 = 40)

1. Conducting system of heart.
2. Bronchopulmonary segments.
3. Discuss the physiology of the normal electrocardiogram (ECG).
4. Interior of right ventricle.
5. List the various lung volumes and capacities.
6. Discuss the mechanics of breathing.
7. Describe the chemical control of respiration.
8. Discuss the role of the baroreceptors in maintaining blood pressure.

III. Short answers on:

(10 x 3 = 30)

1. Parietal pleura.
2. Surface marking of lungs.
3. Describe the maxillary air sinus.
4. What is the effect of parasympathetic stimulation to the heart?
5. What is meant by REM Sleep?
6. List the cause of the first and second heart sounds.
7. What is meant by pulse pressure?
8. What are the accessory muscles of respiration?
9. What is meant by the term compliance of the lung?
10. What is meant by the term hypoxia? Give two causes.
