

[AHS 0321]

MARCH 2021

Sub. Code: 2603

(AUGUST 2020 EXAM SESSION)

B.Sc. RESPIRATORY THERAPY

FIRST YEAR (Regulation 2014-2015)

PAPER III – BIOCHEMISTRY AND PHARMACOLOGY

Q.P. Code : 802603

Time: Three hours

Answer ALL Questions

Maximum: 100 Marks

I. Elaborate on:

(3 x 10 = 30)

1. Name the buffer systems of human body. Explain in detail about Respiratory regulation of pH.
2. Classify Non Steroidal anti-inflammatory drugs with examples. Write a note on mechanism of action, uses and adverse effects of Diclofenac.
3. Classify lipids. Define phospholipid, lipoprotein, Glycolipid with examples. Add a note on Surfactant.

II. Write notes on:

(8 x 5 = 40)

1. Explain isoenzymes with two examples.
2. Name the types of glycogen storage disorders. Add a note on Von Gierke disease.
3. What is ABG analysis? What sample is used for analysis? Mention the normal values of the parameters assessed under ABG analysis.
4. Name the types of acid base disorders and add a note on metabolic acidosis and alkalosis.
5. Mechanism of action, uses and adverse effects of Oseltamivi
6. Hypersensitivity reactions.
7. First line anti- tubercular drugs.
8. Mechanism of action, uses and adverse effects of succinylcholine.

III. Short answers on:

(10 x 3 = 30)

1. Mention three significance of HMP shunt pathway.
2. Name the ketone bodies. What test is done in urine to identify ketone bodies?
3. Name the hormones secreted by pancreas and mention its function.
4. What is anion gap? How to calculate it?
5. What is Bohr's effect?
6. Mechanism of action, uses and adverse effects of Propranolol.
7. Adverse effects of corticosteroids.
8. What is efficiency and potency?
9. Classify and name three sedatives.
10. Name three antifungal agents.
