

[AHS 0321]

MARCH 2021

Sub. Code: 2502

(AUGUST 2020 EXAM SESSION)

B.Sc. NEURO ELECTRO PHYSIOLOGY**FIRST YEAR (Regulation 2012-2013)****PAPER II – PHYSIOLOGY AND BIOCHEMISTRY***Q.P. Code : 802502***Time: Three hours****Answer ALL Questions****Maximum: 100 Marks****I. Elaborate on:****(3 x 10 = 30)**

1. Define Receptors. What are receptor types? Write in detail about the properties of receptors.
2. Describe the electron microscopic structure of skeletal muscle. Briefly write about the Excitation - Contraction coupling in skeletal muscle.
3. What are fat soluble vitamins? Explain about the synthesis, function and deficiency manifestation of Vitamin

II. Write Notes on:**(8 x 5 = 40)**

1. EEG waves.
2. Baroreceptors.
3. What is GFR and factors regulating it?
4. Gastric function tests.
5. Hormonal changes in menstrual cycle.
6. Transport of oxygen.
7. Explain the clinical features and investigations of Diabetes Mellitus.
8. Explain about functions and deficiency manifestations of thiamine.

III. Short Answers on:**(10 x 3 = 30)**

1. Waves of JVP.
2. Dead space.
3. Jaundice.
4. Functions of plasma proteins.
5. Mention any three functions of hypothalamus.
6. Mention the normal levels of
 - i) Serum pH
 - ii) Blood glucose
 - iii) Serum creatinine.
7. Mention any three functions of calcium.
8. Name the isoenzymes of Creatine kinase
9. Anomalies of colour vision.
10. Pregnancy diagnostic tests.
