

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Summer 2018-19 Examination

Semester: 1**Subject Code: Human Anatomy, Physiology and Health Education-I****Subject Name: 08101103****Date: 24/04/2019****Time: 2:00pm to 5:00pm****Total Marks: 75****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Explain Renin-Angiotensin system and its significance. Explain Electrocardiogram (ECG) and its components.
2. Describe in detail mechanism of blood coagulation also mention all clotting Factors.
3. Draw and explain cell cycle. Discuss molecular structure and function of cell.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. Describe the physiology of digestion and absorption.
2. Write the composition and functions of blood and its components.
3. Write in brief physiology of muscle contraction.
4. Write a note on blood group determination.
5. Draw and explain the neurological regulation of blood pressure.
6. Explain the functions and organization of epithelial and connective tissues.
7. Classify joints and explain any two disorders of joints.
8. Explain the function of skeleton. Describe types of bones.
9. What are transcellular and intra-cellular fluids? Write their composition.

Q.3 Answer in short. (2 marks each) (20)

1. Explain Atherosclerosis and Angina Pectoris.
2. Formation and composition of lymphatic system.
3. Explain nervous tissue.
4. Explain the properties of skeletal muscle.
5. Explain anemia and its types.
6. Define 1) Preload
2) Afterload
3) Cardiac output
4) Total Peripheral Resistance
7. Write functions of liver, pancreas and gall bladder.
8. Explain the electrical conduction of heart.
9. What is peptic ulcer disease?
10. Explain the functions of ribosomes and endoplasmic reticulum.