

UNIT-II: HUMAN ANATOMY AND PHYSIOLOGY-II

IIA.BODY FLUIDS AND CIRCULATION

1 x 8 = 8 Marks

ROOT POINTS

1. The **body fluids blood and lymph** called circulatory fluids help in the transport of various substances among various body parts.
2. Blood and lymph together consistute the **fluid tissues** in the human body.
3. Heart is Mesodermal in origin situated in the mediastinum. It is of the size of a clenched fist.
4. Human heart is a **hallow muscular, cone shaped and pulsating organ.** [IPE]
5. **Structure of the heart:** [IPE]
 - (i) **Pericardium**
 - (ii) **Heart wall** with 3 layers (a) Outer epicardium (b) Middle myocardium (c) Inner endocardium
 - (iii) **External Structure** of heart includes
 - (a) Two upper chambers called **atria.**
 - (b) Two lower chambers called **ventricles.**
 - (iv) **Internal structure** includes (a) Atria (b)Ventricles (c) Nodal tissue (d) Aortic arches.
6. **Working of heart:** (i) Generation & conduction of action potentials [IPE]
 - (ii) Cardiac cycle
 - (iii) Double circulation (pulmonary circulation and systemic circulation)

FRUITY Qs OF IPE

1 x 8 = 8 Marks

1. Describe the structure of the heart of man with the help of neat labelled diagram.
2. Write notes on the working of the heart of man.