

### 2012

Describe the structure of an artery and a vein. Explain how their structures help in their functioning. 4M

### 2011

1. Differentiate between haemoglobin and leghaemoglobin. 1M
2. Explain the significant role of lymphocytes. 1/2M
3. Expand SAN. 1/2M
4. Describe step by step what happens in the different phases of cardiac cycle in human beings. 3M
5. Explain the role of Rh factor blood incompatibility. 4M
6. Significant function of bundle of his. 1/2M

### 2010

1. Explain the origin and conduction of heart beat in man. 3M
2. The formation of blood cells in bone marrow is called \_\_\_\_\_. 1/2M
3. Differentiate between open vascular system and closed vascular system. 1M

### 2009

1. Give one significant difference between Myogenic heart and Neurogenic heart. 1M
2. Amount of blood pumped by heart per minute is called \_\_\_\_\_. 1/2M
3. Describe the internal structure of internal heart. 4M

### 2008

1. Why does blood not clot in blood vessels? 1/2M
2. Describe the flow of blood through the heart during different phases of the cardiac cycle. 5M

### 2007

Ventricles have thicker wall than auricles give reason. 1M

### 2006

1. Name the vessel, which supplies blood to the heart muscles. 1M
2. Define cardiac output. Describe the mechanism regulating the heartbeat. 3M

### 2005

1. Differentiate between mitral valve and semilunar valve 1M
2. Describe the structure of arteries, veins and capillaries. Explain the way in which each of these is adapted for its function. 4M

### 2004

Differentiate between systole and diastole 1M

### 2003

Differentiate between neurogenic and myogenic heart 1M

Name the instrument used to measure blood pressure. 1/2M

Describe briefly the stages in the clotting of blood. 4M

### 2001

Which cells form blood platelets in the body 1/2M

The blood group of a patient should be tested before transfusion. Give reasons. 1M

### 2000

Differentiate between plasma and serum 1M

- Fluids are injected into the veins and not the arteries. Give reason ½M
- Describe the flow of blood through the heart during different phases of the cardiac cycle. 4M
- Draw a well-labeled diagram of the V.S of mammalian heart. 4M

### **1999 to 1994**

- Name the instrument used in measuring blood pressure.
- Name the valves that close shortly after the diastole of the heart starts.
- The lymphatic system is said to be the 'go between' or the 'middle man' between the blood and the tissue. Explain the statement.
- What is the advantage of supplying the pulmonary circulation with blood at a lower pressure than that of the systemic circulation?
- Write short notes on:
- Cardiac output
  - Heart beat
- What is a myogenic heart? Describe the mechanism regulating the heartbeat in mammals.