



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### BODY FLUIDS AND CIRCULATION

#### One Marks Questions And Answers

1. What type of blood is carried by the pulmonary artery ?



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2. Name the artery that supplies blood to the heart muscle.



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3. Where does the stimulus for heart beat, originate in humans ?



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4. What is myocardial infarction ?



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5. Name the veins which bring oxygenated blood to heart.



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6. What is a pacemaker ? Give an example.



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7. Name the components of the conducting system in human heart.



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8. Why is the left ventricular valve thicker than the right ventricle valve ?



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**9.** Name the modern instrument used to record blood pressure.



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**10.** Why is the human heart called a double pump ?



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**11.** When do you designate a person as hypertensive ?



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**12.** Name the blood component which is viscous and straw coloured fluid.



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**13.** Name the vascular connection that exists between the digestive tract and liver.



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## Two Marks Questions And Answers

**1.** Why is human blood circulation considered complete ?



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2. What is meant by complete double circulation ?



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3. Explain pulmonary circulation.



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4. Explain systemic circulation.



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5. Mention any four functions of blood.



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6. What is the importance of plasma proteins ?



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7. Why do we consider blood as a connective tissue ?





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8. What is the difference between lymph and blood ?



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9. What is meant by double circulation ? What is its significance ?



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**10.** Why do we call our heart myogenic ?



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**11.** Sino-atrial node is called the pacemaker of our heart. Why ?



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**12.** What is the significance of atrio-ventricular node and atrio-ventricular bundle in the functioning of heart ?



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**13.** Define a cardiac cycle and the cardiac output.



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**14.** Draw a standard ECG and explain the different segments in it.



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**15.** Given below are abnormal conditions related to blood circulatory system. Name the disorders :

(a) Acute chest pain due to failure of  $O_2$  supply to heart muscles



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**16.** Given below are abnormal conditions related to blood circulatory system. Name the disorders :

(b) Increased systolic pressure.



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**17.** Which coronary artery disease is caused due to the narrowing of the lumen of arteries ?



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**18.** Define the following terms, and give their location :

(a) Purkinje fibres





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**19.** Define the following terms, and give their location :

(b) Bundle of HIS.



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## Three Marks Questions With Answers

**1.** What is the difference between lymph and blood ?



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**2. Write the difference between**

b. Open, and closed system of circulation



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**3. Write the difference between**

c. Systole, and Diastole



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4. Write the difference between

d. P-wave, and T-wave



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5. Explain heart sounds.



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**Five Mark Questions And Answers**

1. Describe the origin and conduction of heart beat.



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2. Explain Circulation in humans.



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3. Draw a neat labelled diagram of V.S. of human heart.



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4. Describe the anatomy of human heart.



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