



# BIOLOGY

## BOOKS - NCERT BIOLOGY (HINGLISH)

### Body Fluids and Circulation

Mcq

1. Which of the following cells does not exhibit phagocytic activity ?

A. Monocytes

B. Neutrophil

C. Basophil

D. Macrophage

**Answer: C**



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**2. One of the common symptoms observed in people infected with Dengue fever is**

- A. significant decrease' In RBCs count
- B. significant decrease in WBC count
- C. significant decrease in platelets count
- D. Significant increase in platelets count

**Answer: C**



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**3. Which among the following is correct during each cardiac cycle ?**

- A. The volume of blood pumped out by the Rt and Lt ventricles is same
- B. The volume of blood pumped out by the Rt and Lt ventricles is different ,
- C. The volume of blood received by each atrium is different
- D. The volume of blood received by the aorta and pulmonary artery is different

**Answer: A**



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4. Cardiac activity could be moderated by the autonomous neutral system. Tick the correct answer

A. The parasympathetic system stimulates heart rate and stroke volume

B. The sympathetic system stimulates heart rate and stroke volume

C. The parasympathetic system decreases the heart rate but increase stroke

volume

D. The sympathetic system decreases the heart rate but increase stroke volume

**Answer: B**



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5. Mark the pair of substances among the following which is essential for coagulation of blood.

A. Heparin and calcium ions

B. Calcium ions and platelet factors

C. oxalates and citrates

D. Platelet factors and heparin

**Answer: B**



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6. ECG depicts the depolarisation and repolarisation process during the cardiac

cycle. In the ECG of a normal healthy individual one of the following waves is not represented.

- A. Depolarisation of atria
- B. Repolarisation of atria
- C. Depolarisation of ventricle
- D. Repolarisation of ventricles

**Answer: B**



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7. Which one of the following types of cells lack nucleus in humans ?

A. RBC

B. Neutrophils

C. Eosinophils

D. Erthrocytes

**Answer: A**



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8. Which one of the following blood cells is involved in antibody production ?

A. B-lymphocytes

B. T-lymphocytes

C. RBC

D. neutrophils

**Answer: A**



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9. The cardiac impulse is initiated and conducted further upto ventricle. The correct sequence of conduction of impulse is



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10. Agranulocytes responsible for immune response of the body are

A. basophils

B. neutrophils

C. Eosinophils

D. lymphocytes

**Answer: A**



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**11.** The second heart sound (dubb) is associated with the closure of

A. tricuspid valve

B. semilunar valve

C. bicuspid valve

D. tricuspid and bicuspid valve

**Answer: B**



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**12.** Which of the following correctly explains a phase/event in cardiac cycle in a standard electrocardiogram

A. QRS complex indicates atrial contraction.

B. QRS complex indicates ventricular contraction.

C. Time between S and T represents atrial systole

D. P-wave indicates beginning of ventricular contraction.

**Answer: B**



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**13.** Which of the following statements is incorrect ?

A. A person of 'O' blood group has anti 'B' antibodies in his blood plasma.

B. A person of 'B' blood group can't donate to a person of 'A' blood group

C. Blood group is designated on the basis of the presence of antibodies in the blood plasma

D. A person of AB blood group is universal recipient

**Answer: C**



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**14.** What would be the cardiac output of a person having 72 heart beats per minute and a stroke volume of 50 mL ?

A. 360 mL



B. 3600 mL

C. 7200 mL

D. 5000 mL

**Answer: D**



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**15.** Match the terms given under column 'A' with their functions given under column 'B' and select the answer from the options given below :

Column A

Column B

A. Lymphatic

i. Carries oxygenated

B. Pulmonary vein

ii. Immune response

C. Thrombocytes

iii. To drain back the  
tissue fluid to the  
circulatory system

D. Lymphocytes

iv. Coagulation of blood

Options :

A.      A   B   C   D  
       2   1   3   4

B.      A   B   C   D  
       3   1   4   2

C.      A   B   C   D  
       3   1   3   4

D.      A   B   C   D  
       2   1   3   4

**Answer: B**



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**16.** Read the following statements and choose the correct option

Statement 1 : Atria receive blood from all parts of the body which subsequently flows to ventricles

Statement 2 : Action potential generated at sino-atrial node passes from atria to ventricles.

A. Action mentioned in statement 1 is dependent on action mentioned in

## Statement II

B. Action mentioned in statement II is dependent on action mentioned in

## Statement I

C. Action mentioned in statement I and II are independent of each other.

D. Action mentioned in statement I and II are synchronous.

**Answer: D**



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## Very Short Ans Typ Q

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



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2. Complete the missing word in the statement given below

(a) Plasma without ..... is called serum.

(b) ..... and monocytes are phagocytic cells.

(c ) Eosinophils are associated with ..... reactions.

(d) ..... ions play a significant role in clotting.

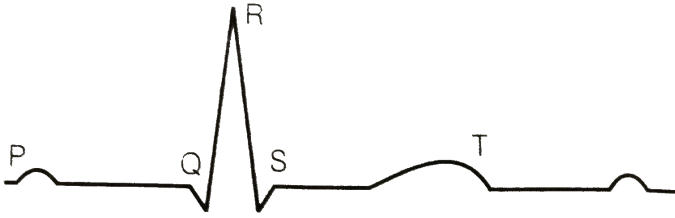
(e) One can determine the heart beat rate by counting the number of ..... complex in an ECG.



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3. Given below is the diagrammatic representation of a standard ECG. Label its

different peaks.



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4. A unique vascular connection between the digestive tract and liver is called



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5. Given below are the abnormal conditions related to blood circulation. Name the disorders

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

Increased systolic pressure



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6. Which coronary artery diseases is caused due to narrowing of the lumen of arteries?







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7. Define the following terms and give their location?

(a ) Purkinje fibre

(b ) Bundle of His



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8. State the function of the following in blood

A. Fibrinogen

B. globulin

C. neutrophils

D. lymphocytes

**Answer:**



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**9. Erythroblastosis foetalis occurs:**



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**10.** Explains the consequence of a situation in which blood does not coagulate?



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**11.** What is the significance of time gap in the passage of action potential from sino-atrial node to the ventricle ?



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12. How will you interpret an electrocardium (ECG) in which of the time taken in QRS complex is higher ?



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## Short Answer Type Question

1. The walls of ventricles are much thicker than atria. Explain.



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**2. Differentiate between**

Blood and lymph

Basophils and esinophils

tricuspid and bicuspid valve



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**3. Briefly describe the followings**

(a) anaemia

(b) angina pectoris

( c) atherosclerosis

(d) hypertenswn

(e) heart failure

(f) erythroblastosis foetalis



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4. Explain the advantage of the complete partition of ventricle among birds and mammals and hence leading to double circulation



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5. What is the significance of hepatic portal system in the circulatory system?



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6. Explain the functional significance of lymphatic system ?



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7. Explain the features that distinguish between the two

Plasma and serum

A. Plasma and serum

B. Open and closed circulatory system

C. sino-atrial node and atrio-ventricular node

D.

**Answer:**







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**8.** Thrombocytes are essential for coagulation of blood.



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**9.** Answer the following

name the major site where RBCs are formed

which part of heart is responsible for initiating

and maintaining its rhythmic activity ?



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## Long Answer Type Q

1. Explain Rh-incompatibility in humans.



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2. Describe the events in cardiac cycle. Explain 'double circulation'.



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**3. Explain different types of blood groups and donor compatibility by making a table**



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**4. Write short note on the following.**

(a) Hypertension

(b) Coronary Artery Disease



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5. In the diagrammatic presentation of heart given below, mark and label SAN, AVN, AV bundles, bundle of his and Purkinje fibers.



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