



# BIOLOGY

## BOOKS - NEET PREVIOUS YEAR (YEARWISE + CHAPTERWISE)

### BODY FLUIDS AND CIRCULATION

#### Exercise

1. Adult human RBCs are enucleate. Which of the following statement (s) is/are most

appropriate explanation for this feature ?

- (1) They do not need to reproduce
- (2) They are somatic cells
- (3) They do not metabolise
- (4) All their internal space is available for oxygen transport.

A. Only (IV)

B. Only (I)

C. (I),(III) and (IV)

D. (II) and (III)

**Answer: A**



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2. Blood pressure in the pulmonary artery is

- A. more than that in the carotid
- B. more than that in the pulmonary vein
- C. less than that in the vena cava
- D. same as that in the aorta

**Answer: B**



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3. Which one of the following blood vessels in mammals would normally carry the largest amount of urea

A. Dorsal Aorta

B. Hepatic Vein

C. Hepatic Portal Vein

D. Renal Vein

**Answer: B**



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4. Name the blood cells, whose reduction in number can cause clotting disorder, leading to excessive loss of blood from the body.

A. Erythrocytes

B. Leucocytes

C. Neutrophils

D. Thrombocytes

**Answer: D**



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5. Serum differs from blood in

- A. lacking globulins
- B. lacking albumins
- C. lacking clotting factors
- D. lacking antibodies

**Answer: C**



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**6.** Which one of the following animals has two separate circulatory pathways

A. Frog

B. Lizard

C. Whale

D. Shark

**Answer: C**



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7. Doctors use stethoscope to hear the sounds produced during each cardiac cycle. The second sound is heard when

A. AV valves open up

B. ventricular walls vibrate due to gushing  
in of blood from atria

C. semilunar valves close down after the  
blood flows into vessels from ventricles

D. AV node receives signal from SA node

**Answer: C**



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**8.** Person with blood group AB is considered as universal recipient because he has

A. Both A and B antigens on RBC but no antibodies in the plasma

B. Both A and B antibodies in the plasma

C. No antigen on RBC and no antibody in the plasma

D. Both A and B antigens in the plasma but no antibodies

**Answer: A**



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9. Figure shows schematic plan of blood circulation in humans with labels A to D,

Identify the label and given its function / s



A. A-pulmonary vein-takes impure blood

from body part,  $pO_2 = 60mmHg$

B. B-pulmonary artery takes blood from

heart to lungs,  $pO_2=90$  mm Hg

C. C-vena cava take blood from body parts

to right auricle,  $pCO_2 = 45$  mm Hg

D. D-dorsal aorta takes blood from heart to

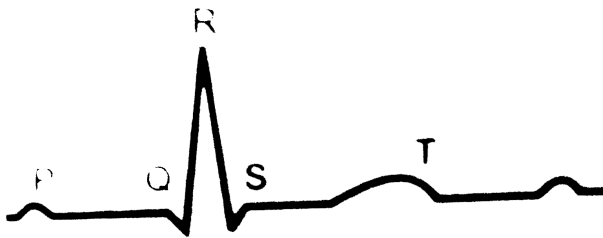
body parts ,  $pO_2=95$  mm Hg

**Answer: C**



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**10.** The diagram given here is the standard ECG of a normal person, the P-wave represents the



A. contraction of both the atria

B. initiation of the ventricular contraction

C. beginning of the systole

D. end of systole

**Answer: A**



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11. A certain road accident patient with unknown blood group needs immediate blood transfusion. His one doctor friend at once

offers his blood .What was the blood group of the doner ?

- A. Blood group B
- B. Blood group AB
- C. Blood group O
- D. Blood group A

**Answer: C**



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**12.** Arteries are best defined as the vessels which

A. carry blood away from the heart to  
different organs.

B. break up into capillaries which reunite to  
form a vein

C. carry blood from one visceral organ to  
another visceral organs

D. supply oxygenated blood to the different organs.

**Answer: A**



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**13.** Which one of the following statements is correct regarding blood pressure ?

A. 100/55 mm Hg is considered an ideal blood pressure

B. 105/50 mm Hg makes one very active.

C. 190/110 mm Hg may harm vital organs  
like brain and kidney

D. 130/90 mm Hg is considered high and  
requires treatment.

**Answer: C**



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**14.** Bundle of His is a part of which one of the following organs in humans

A. Heart

B. Kidney

C. Pancreas

D. Brain

**Answer: A**



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15. Which one of the following proteins involved in the coagulation of blood?

A. Serum amylase

B. A globulin

C. Fibrinogen

D. An albumin

**Answer: C**



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**16.** A person with unknown blood group under ABO system, has suffered much loss in an accident and needs immediate blood trasfusion. His one friend who has a valid certifacte of his own blood type. What would have been the type of blood group of the donor friend

A. Type AB

B. Type O

C. Type A

D. Type B

**Answer: B**



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**17.** If due to some injury the chordae tendineae of the tricuspid valve of the human heart is partially non-functional, what will be the immediate effect ?

- A. The flow of blood into the aorta will be slowed down.
- B. The 'pacemaker' will stop working
- C. The blood will tend to flow back in to the left atrium
- D. the flow of blood into the pulmonary artery will be reduced.

**Answer: D**



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**18.** The most popularly known blood grouping is the ABO grouping. It is named ABO and not ABC, because, because "O" in it refers to having

A. other antigens besides A and B on RBCs

B. over dominance of this type on the  
genes for A and B types

C. one antibody only- either anti-A or anti-B  
on the RBCs

D. no antigens A and B on RBCs

**Answer: D**



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**19.** In humans, blood passes from the post caval to the diastolic right atrium of heart due to

- A. pushing open of the venous valves
- B. suction pull
- C. stimulation of the sino auricular node

D. pressure difference between the post caval and atrium

**Answer: D**



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**20.** If you suspect major deficiency of antibodies in a person, to which of the following would you look for confirmatory evidence

A. Serum albumins

B. serum globulins

C. Fibrinogen in the plasma

D. Haemocytes

**Answer: B**



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**21.** A drop of each of the following, is placed separately on four sides. Which of them will not coagulate ?

A. Blood plasma

B. Blood serum

C. Sample fro the thoracic duct of  
lymphatic system

D. Whole blood from pulmonary vein.

**Answer: B**



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22. Examination of blood of a person suspected of having anaemia, shows large, immature, nucleated erythrocytes without haemoglobin. Supplementing his diet with which of the following is likely to alleviate his symptoms

A. Thiamine

B. Folic acid and cobalamin

C. Riboflavin

D. Iron compounds.

**Answer: D**



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**23.** Antibodies in our body are complex

- A. lipoproteins
- B. steroids
- C. prostaglandins
- D. glycoproteins.

**Answer: D**



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**24.** Which of the following substances, if introduced into the blood system, would cause coagulation of blood at the site of its introduction

A. Fibrinogen

B. Prothombin

C. Heparin

D. Thromboplastin

**Answer: D**



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**25.** In the AOB system of blood,group,if both antigens are present but no antibody,the blood group of the individual would be :

A. B

B. O

C. AB

D. A

**Answer: C**



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**26.** You are required to draw blood from a patient and to keep in it a test tube for analysis of blood corpuscles and plasma. You are also provided with the following four types of test tubes. Which of them will you not use for the purpose.

A. Test-tube containing calcium bicarbonate

B. Chilled test tube

C. Test tube containing heparin

D. Test tube containing sodium oxalate

**Answer: A**



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**27. Systemic heart refers to**

- A. entric heart in lowwer vertebrates
- B. the two ventricles together in humans
- C. the heart that contracts under stimulation from nervous system
- D. left auricle and left ventricle in hihger vertebrates.

**Answer: A**



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**28.** Bundle of His is a network of

- A. nerve fibres distributed in ventricles
- B. nerve fibres found throughout the heart
- C. muscle fibres distributed throughout the heart walls
- D. muscle fibres found only in the ventricle wall

**Answer: D**



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**29.** Which of the following statements is true for lymph ?

A. WBC and serum

B. All components of blood except RBCs  
and some proteins

C. RBCs, WBCs and plasma

D. RBCs , protein and platelets

**Answer: B**



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**30.** Continuous bleeding from an injured part of body is due to deficiency of

A. vitamin-A

B. vitamin-B

C. vitamin-K

D. vitamin-E

**Answer: C**



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**31.** What is correct for blood groups O?

A. No antigens but both a and b antibodies are present

B. A antigen and b antibody

C. Antigen and antibody both absent

D. A,B antigens and a,b antibodies

**Answer: A**



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**32. What is true of leucocytes?**

A. These can squeeze out through ( can cross ) the capillary walls

B. These are enucleate

C. Sudden fall in their number indicates cancer

D. These are produced in thymus

**Answer: A**



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**33.** In which of the following points pulmonary artery is different from pulmonary vein ?

- A. larger lumen
- B. thick muscular walls
- C. no endothelium
- D. valves

**Answer: B**



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**34.** The antibodies are

A. germs

B. carbohydrates

C. proteins

D. lipids

**Answer: C**



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**35.** Haemoglobin is a type of

A. carbohydrate

B. vitamin

C. skin pigment

D. respiratory pigment

**Answer: D**



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**36.** Which one is the principal cation in the plasma of blood ?

A. Magnesium

B. Sodium

C. Potassium

D. Calcium

**Answer: B**



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37. The thickening of walls of arteries is called

- A. arthritis
- B. arteriosclerosis
- C. aneurysm
- D. Both (a) and (c)

**Answer: B**



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**38.** An adult human with average health has systolic and diastolic pressures as

- A. 80mm Hg and 80 mm Hg
- B. 70 mm Hg and 120 mm Hg
- C. 120 mm Hg and 80 mm Hg
- D. 50 mm Hg and 80 mm Hg

**Answer: C**



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**39.** Which of the following is not main function of lymph glands ?

- A. Forming WBC
- B. Forming antibodies
- C. Forming RBC
- D. Destroying bacteria

**Answer: C**



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**40.** Histamine is secreted by

A. fibroblasts

B. histocytes

C. lymphocytes

D. mast cell

**Answer: D**



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**41.** Which of the following is an agranulocyte ?

A. Lymphocyte

B. Eosinophil

C. Basophil

D. Neutrophil

**Answer: A**



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**42.** The life span of human granulocytic WBC is approximately

- A. less than 10 days
- B. between 20-30 days
- C. between 2-3 months
- D. more than 4 months

**Answer: A**



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**43.** Which vertebrate organ receives only oxygenated blood

A. Gill

B. Lung

C. Liver

D. Spleen

**Answer: D**



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**44.** Antigen are present

- A. inside the nucleus
- B. on cell surface
- C. inside the cytoplasm
- D. on nuclear membrane

**Answer: B**



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**45.** The lymph serves to

- A. transport oxygen to the brain
- B. transport carbon dioxide to the lungs
- C. return the interstitial fluid to the blood
- D. return the WBCs and RBCs to the lymph nodes

**Answer: C**



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**46.** Blood cancer is excess production of leucocytes . It is

Or

Blood cancer is also known as

A. leukemia

B. thrombosis

C. haemolysis

D. haemophilia

**Answer: A**



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**47.** Which one is the correct route through which pulse making impulse travels in the heart

A. AV node → Bundle of His → SA node

→ Purkinje fibres → Heart muscles

B. AV node → SA node → Purkinje fibres

→ Bundle of His → Heart muscles

C. SA node → Purkinje fibres → Bundle

of His → AV node → Heart muscles

D. SA node → AV node → Bundle of His  
→ Purkinje fibres → Heart muscles

**Answer: D**



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**48. Pacemaker of heart is**

A. AV node

B. bundle of His

C. SA node

D. Purkinje fibres

**Answer: C**



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**49.** Closed circulatory system occurs in

A. cockroach

B. tadpole/fish

C. mosquito

D. house fly

**Answer: B**



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**50.** Dup sound is produced during closure of

A. semilunar valves

B. bicuspid valve

C. tricuspid valve

D. Both (b) and (c )

**Answer: A**



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**51. Cells froms in bone marrow include**

- A. RBC
- B. RBC and leucocytes
- C. leucocytes
- D. lymphocytes

**Answer: B**



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52. Wall of blood capillary is formed of

- A. haemocytes
- B. parietal cells
- C. endothelial cells
- D. oxyntic cells

**Answer: C**



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**53.** Splenic artery arises from

- A. anterior mesenteric artery
- B. coeliac artery ( or celiac artery )
- C. posterior mesenteric artery
- D. intestinal artery

**Answer: B**



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**54.** A vein possesses a larger lumen because

A. tunica media and tunica externa form a single coat

B. tunica interna and tunica media form a single coat

C. tunica interna, tunica media and tunica externa are thin

D. tunica media is a thin coat

**Answer: D**

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**55.** All arteries carry oxygenated blood except

A. pulmonary

B. cardiac

C. hepatic

D. systemic

**Answer: A**



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**56.** Removal of calcium from freshly collected blood would

- A. cause delayed clotting
- B. prevent clotting
- C. cause immediate clotting
- D. prevent destruction of haemoglobin

**Answer: B**



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57. A person with blood group A required blood. The blood group which can be given is

A. A and B

B. A and AB

C. A and O

D. A, B, AB and O

**Answer: C**



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**58.** Which one engulfs pathogens rapidly ?

A. Acidophills

B. Monocytes

C. Basophils

D. Neutrophils

**Answer: D**



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**59.** Tricuspid valve is found in between

- A. sinus venosus and right auricle
- B. right auricle and right ventricle
- C. left ventricle and left auricle
- D. ventricle and aorta

**Answer: B**



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60. Child death may occur in the marriage of

A.  $Rh^{+}$  man and  $Rh^{+}$  woman

B.  $Rh^{+}$  man and  $Rh^{-}$  women

C.  $Rh^{-}$  man and  $Rh^{-}$  woman

D.  $Rh^{-}$  man and  $Rh^{+}$  woman

**Answer: B**



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**61.** RBCs do not occur in

A. frog

B. cow

C. camel

D. cockroach

**Answer: D**



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**62.** The breakdown product of haemoglobin is called as

A. bilirubin

B. iron

C. biliverdin

D. Calcium

**Answer: A**



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