

Class : XIth
Date :

Subject : BIOLOGY
DPP No. : 7

Topic :- Body Fluids And Circulation

- Rh⁻ person donated blood to Rh⁺ person for the second time. Then,
 - Rh⁻ person will die
 - Nothing happens to Rh⁺ person
 - Rh⁺ blood starts reacting to Rh⁻ blood
 - Rh⁺ person will die
- Systemic circulation is
 - Left ventricle $\xrightarrow[\text{blood}]{\text{Deoxygenated}}$ Tissues $\xrightarrow[\text{blood}]{\text{Oxygenated}}$ Right ventricle
 - Right ventricle $\xrightarrow[\text{blood}]{\text{Oxygenated}}$ Tissues $\xrightarrow[\text{blood}]{\text{Deoxygenated}}$ Right auricle
 - Left ventricle $\xrightarrow[\text{blood}]{\text{Deoxygenated}}$ Tissues $\xrightarrow[\text{blood}]{\text{Oxygenated}}$ Right auricle
 - Left ventricle $\xrightarrow[\text{blood}]{\text{Oxygenated}}$ Tissues $\xrightarrow[\text{blood}]{\text{Deoxygenated}}$ Right auricle
- 72 beats per minute heart beat rate of man is controlled by
 - SA-node
 - Ventricles
 - Purkinje fibres
 - AV-node
- Which one of the following is matching pair?
 - Lubb – Sharp closure of AV valves at the beginning of ventricular systole
 - Dup – Sudden opening of semilunar valves at the beginning of ventricular diastole
 - Pulsation of the radial artery – Valves in the blood vessels
 - Initiation of the heart beat – Purkinje fibres
- A = Auricle, V = Ventricle

A	A	A	A	A
V	V	V	V	V
A	B		C	

Identify the correct examples of figures A, B and C

 - A-Fishes, B-Reptiles, C-Birds
 - A-Fishes, B-Amphibians, C-Mammals
 - A-Fishes, B-Mammals, C-Reptiles
 - A-Fishes, B-Birds, C-Mammals
- Which of the following sequences is truly a systemic circulation pathway?

- a) Right ventricle → Pulmonary aorta → Tissues → Pulmonary veins → Left auricle
 b) Right auricle → Left ventricle → Aorta → Tissues → Veins → Right auricle
 c) Left auricle → Left ventricle → Pulmonary aorta → Tissues → Right auricle
- d) Left auricle → Left ventricle → Pulmonary aorta → Arteries → Tissues → Veins → Right atrium
7. Haemoglobin contains
 a) Fe^{2+} b) Mg^{2+} c) Na^{2+} d) Ca^{2+}
8. Which of the following is main negative mineral ion in extracellular fluid?
 a) SO_4^{2-} b) Cl^- c) NO_2^- d) OH^-
9. Atrial natriuretic hormone is produced by
 a) Kidney b) Heart c) Duodenum d) Thyroid gland
10. The branches of the nodal tissue, which give rise to minute fibres throughout the ventricular musculature of the respective sides are called
 a) Sino auricular node b) Atrio ventricular node
 c) Purkinje fibre d) Bundle of His
11. The valves in the heart allows the blood flow in which direction?
 I. From atria to ventricles
 II. From ventricles to pulmonary artery
 III. From pulmonary artery to aorta
 Choose the correct option
 a) I and II b) II and III c) III and I d) All of these
12. Heart sound 'dup' is caused due to closing of
 a) Valve b) Tricuspid valve c) Semilunar valve d) None of the above
13. SA-node is located in
 a) Lower lateral wall of right atrium b) Upper lateral wall of right atrium
 c) Upper lateral wall of left atrium d) Lower lateral wall of left atrium
14. Which of the following is the correct pathway for propagation of cardiac impulse?
 a) SA node → AV node → Bundle of His → Purkinje fibres
 b) AV node → Bundle of His → SA node → Purkinje fibres
 c) SA node → Purkinje fibres → AV node → Bundle of His
 d) Purkinje fibres → AV node → SA node → Bundle of His
15. The blue baby syndrome results from

- a) Excess of chloride
- c) Excess of dissolved oxygen

- b) Methaemoglobin
- d) Excess of TDS (Total Dissolved Solids)

16. 'Bundle of His' are

- a) Nervous tissue supplied to ventricles
- c) Muscular tissue supplied to ventricles

- b) Nervous tissue supplied to heart
- d) Muscular tissue supplied to heart

17. Most abundant cells in the human blood are

- a) WBC
- b) Plasma cells
- c) RBC
- d) Platelets

18.

Blood Group	May Receive Blood	May Donate Blood
O	O	Z
A	X	A, AB
B	B, O	B, AB
AB	Y	P

Choose the correct option for X, Y, Z and P

- a) X-A,O, Y-O,A, B, AB, Z-O,A,B, AB, P-A,B
- c) X-O, Y-O,A, B, AB, Z-O,A,B, AB, P-A

- b) X-A, Y-O,A, B, AB, Z-O,A,B, AB, P-A,B
- d) X- O, Y-O,A, B, AB, Z-O,A,B, AB, P-B

19. The cardiac cycle in normal person is about

- a) 0.5 second
- b) 0.8 second

- c) 1.0 second
- d) 1.2 second

20. In diastole, heart is filled by

- a) Mixed blood
- b) Venous blood

- c) Oxygenated blood
- d) Deoxygenated blood