

Topic :- Body Fluids And Circulation

- Heart beat increases by
 - Adrenal hormones
 - Sympathetic nerves
 - Both (a) and (b)
 - Parasympathetic nerve
- Which of the following statement (s) is/are incorrect?
 - The AV node and the bundle of His constitute, the electrical link between the atria and the ventricles
 - The bundle of His is a bundle of electrical nodes which allows the ventricles to contract
 - The bundle of His is a group of fibres that carry the electrical impulses through the centre of the heart
 - The bundle of His is located in the atrial regionChoose the correct option
 - II, III and IV
 - I, III and IV
 - I, II and IV
 - I, II and III
- When thromboplastin is released in humans?
 - During hypertension
 - By the traumatised cell at the place of injury
 - In the condition of erythroblastosis foetalis
 - During anaemia
- Blood pressure is controlled by
 - Adrenal
 - Thyroid
 - Thymus
 - Corpus luteum
- Atherosclerosis is called
 - Coronary artery disease
 - Angina
 - Heart failure
 - Hypertension
- Haemoglobin is
 - An oxygen carrier in human blood
 - A protein used as food supplement
 - An oxygen scavenger in root nodules
 - A plant protein with high lysine content
- In a healthy adult man, the normal diastolic pressure is
 - 90 mm Hg
 - 120 mm Hg
 - 80 mm Hg
 - 100 mm Hg

8. You are required to draw blood from patient and to keep it in 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
9. During ventricular systole
- a) Oxygenated blood is pumped into the pulmonary artery and deoxygenated blood is pumped into the artery
b) Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary vein
c) Oxygenated blood is pumped into the pulmonary vein and deoxygenated blood is pumped into the pulmonary artery
d) Oxygenated blood is pumped into the aorta and deoxygenated blood is pumped into the pulmonary artery
10. Pacemaker in heart is situated
- a) In the wall of left atrium b) In the wall of right atrium
c) On inter-auricular septum d) On inter-ventricular septum
11. Duration of cardiac cycle ($\cong \cdot 88$ s)
- I. Atrial systole \rightarrow ...A... sec.
II. Atrial diastole \rightarrow ...B... sec.
III. Ventricular systole \rightarrow ...C... sec.
IV. Ventricular diastole \rightarrow ...D... sec.
Total time = $\cong \cdot 88$ sec
- Choose the correct option for A, B, C and D
- a) A-0.32, B-0.30, C-0.08, D-0.18
b) A-0.32, B-0.08, C-0.30, D-0.18
c) A-0.18, B-0.08, C-0.30, D-0.32
d) A-0.18, B-0.30, C-0.08, D-0.32

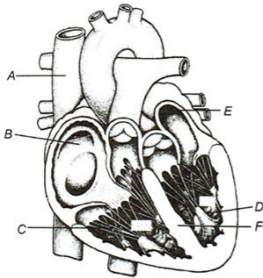
12.

| Blood group | Antigen on RBCs | Antibody in Plasma | Donor's Group |
|-------------|-----------------|--------------------|---------------|
| A | A | Anti b | A, O |
| B | B | Anti A | B, O |
| AB | X | Nil | Z |
| O | Nil | Y | O |

Choose the correct option for X, Y and Z

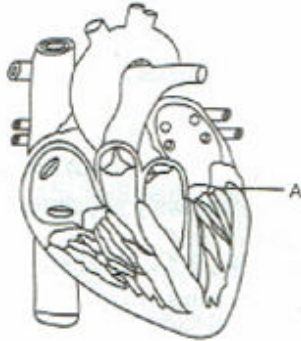
- a) X-B; Y-A; Z-AB b) X-AB; Y-Nil; Z-AB, ABO
c) X-AB; Y-anti-AB; Z-AB, ABO d) X-AB; Y-anti AB; Z-AB, AB

13. As the blood passes through the capillaries some water along with small water soluble substances move out into the spaces between the cells of the tissues. This fluid released out is called the
- a) Intrastitial fluid b) Interstitial fluid c) Nutritional fluid d) Vital fluid
14. During the process of blood coagulation, vitamin-K helps in the
- a) Formation of prothrombin b) Formation of thromboplastin
c) Conversion of fibrinogen into fibrin d) Conversion of prothrombin into thrombin
15. Identify *A* to *F* in the given diagram of human heart and choose the correct option



- a) A-Vena cava, B-Right atrium, C-Left atrium, D-Right ventricle, E-Left ventricle, F- Interventricular septum
- b) A-Vena cava, B-Right atrium, C-Right ventricle, D-Left ventricle, E-Left auricle, F- Interventricular septum
- c) A-Vena cava, B-Right atrium, C-Right ventricle, D-Left atrium, E-Left ventricle, F- Interventricular septum
- d) A-Vena cava, B-Left atrium, C-Right ventricle, D-Left ventricle, E-Right atrium, F- Interventricular septum
16. Which of the following blood vessels in the circulatory system of frog has more oxygenated blood?
- a) Pulmocutaneous artery b) Pulmocutaneous vein
c) Pulmonary artery d) Precaval veins

17. Which of the following statement is not related to the region labelled as 'A' in the given diagram?



- a) Through mitral valve, it communicates with left ventricle
b) Through tricuspid valve, it communicates with left ventricle
c) Pulmonary vein brings blood to it
d) It is separated from the other auricle through interauricular septum
18. To which of the following, bundle of His passes stimulus of contraction?
a) AV-node b) SA-node c) Purkinje fibre d) Atrium
19. Haemolymph is the term used for the blood of the organism having
a) Water circulatory system b) Closed circulatory system
c) Open circulatory system d) Blood circulatory system
20. Carotid artery supplies oxygenated blood to
a) Lungs b) Intestine c) Brain d) None of these