



BIOLOGY

BOOKS - TRUEMAN'S BIOLOGY

(ENGLISH)

NCERT Exemplar Questions +1 (BODY FLUIDS AND CIRCULATION)

Mcqs

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 RBC count
- B. significant decrease in WBC count
- C. significant decrease in platelets count
- D. significant increase in platelets count

Answer: d



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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 neural system. Tick the correct answer

A. (a) The parasympathetic system stimulates heart rate and stroke volume

B. (b) The sympathetic system stimulates heart rate and stroke volume

C. (c) The parasympathetic system decreases the heart rate but increase stroke volume

D. (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 ventricles

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. Monocyte

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

| | | | |
|-------------|----------------|----------------|----------------|
| (a) SA Node | AV Node | Purkinje fiber | AV Bundle |
| (b) SA Node | Purkinje fiber | AV Node | AV Bundle |
| (c) SA Node | AV Node | AV Bundle | Purkinje fiber |
| (d) SA Node | Purkinje fiber | AV Bundle | AV Node |



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10. The cells involved in inflammatory reactions 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 valves

C. bicuspid valve

D. tricuspid and bicuspid valves.

Answer: b



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

A. (a) QRS complex indicates atrial contraction

B. (b) QRS complex indicates ventricular contraction

C. (c) Time between S and T represents atrial systole

D. (d) P-wave indicates beginning of ventricular contraction

Answer: b



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13. Which of the following statements is incorrect?

A. (a) A person of 'O' blood group has anti 'A' and anti 'B' antibodies in his blood plasma.

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

C.(c) Blood group is designatrd on the basis of the presence of antibodies in the blood plasma

D.(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: b



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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 System | i. Carries oxygenated blood |
| 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 |

A. A-ii, B-i. C-iii. D-iv,

B. A-P: B-: C-iv, D-ii,

C. A-iii, B:- C-iii, D-iv

D. A-ii, B-i, C-iii, D-iv

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 2

B. Action mentioned in Statement 2 is dependent on action mentioned in Statement 1

C. Action mentioned in Statements 1 and 2
are independent of each other

D. Action mentioned in Statements 1 and 2
are synchronous.

Answer: b



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