

Body Fluids and Circulation

NEET previous year questions · Biology

7 questions from the official papers: NEET 2026 (2), Re-NEET 2026 (3), NEET 2020 (2). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.

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1. NEET 2026 · Q150

The WBC count of a person's blood sample is 8000/cu mm. How many eosinophils and lymphocytes would be in the same blood sample approximately?

- (1) 300 - 500/cu mm and 1200 - 1500/cu mm respectively
- (2) 160 - 240/cu mm and 1600 - 2000/cu mm respectively
- (3) 300 - 500/cu mm and 500 - 700/cu mm respectively
- (4) 100 - 120/cu mm and 160 - 200/cu mm respectively

Answer (2)

Sol. Eosinophils make up roughly 2-3% of total white blood cells (WBCs), so in 8000/cu mm that is about 160-240/cu mm. Lymphocytes make up about 20-25%, giving about 1600-2000/cu mm. Only option (2) provides both correct ranges.

2. NEET 2026 · Q157

Select the incorrect statement with reference to Rh grouping :

Statement I: Erythroblastosis foetalis is a condition observed having foetus with Rh-ve blood and mother with Rh+ve blood.

Statement II: Rh antigen is observed on RBCs in the majority of human beings.

Statement III: Before blood transfusion, Rh group should also be matched.

Statement IV: Rh incompatibility is observed when a pregnant mother is Rh-ve and the foetus is Rh+ve.

Statement V: Erythroblastosis foetalis can be avoided by administering anti-Rh antibodies to the mother immediately after the delivery of the second child.

Choose the answer from the options given below:

- (1) III and IV only
- (2) I and II only
- (3) I and V only
- (4) II and III only

Answer (3)

Sol. Erythroblastosis foetalis can develop when an Rh-negative mother carries an Rh-positive foetus and becomes sensitised to the Rh antigen. In the NCERT account, anti-Rh antibodies are given immediately after delivery of the first child to prevent the disease in later pregnancies. Statement I reverses the mother-foetus Rh types, and Statement V gives the wrong timing; these are the two incorrect statements.

3. Re-NEET 2026 · Q115

The number of action potentials generated by sino-atrial node (SAN) in a healthy human is _____ per minute.

- (1) 28 - 30
- (2) 70 - 75
- (3) 100 - 110
- (4) 120 - 140

Answer (2)

Sol. The sino-atrial node is the pacemaker of the heart because it generates action potentials faster than any other part of the conducting system - about 70 to 75 per minute, which sets the normal resting heart rate. The atrio-ventricular node and Purkinje fibres can also fire spontaneously but at slower rates, so they only take over if the SAN fails. NCERT Class 11, Body Fluids and Circulation.

4. Re-NEET 2026 · Q117

Which of the following statements is incorrect?

- (1) Blood coagulates in response to an injury
- (2) Blood clot consists of fibrins
- (3) Fibrin is produced from fibrinogen
- (4) Fibrinogen is produced from fibrin

Answer (4)

Sol. During blood coagulation, thrombin converts soluble plasma fibrinogen into insoluble fibrin threads. Those threads form a mesh that traps blood cells to make the clot. Reversing fibrin and fibrinogen gives the wrong direction for this step.

5. Re-NEET 2026 · Q149

The opening between the right atrium and the right ventricle is guarded by _____.

- (1) bicuspid valve
- (2) tricuspid valve
- (3) semilunar valve
- (4) sino-atrial node

Answer (2)

Sol. The right atrioventricular opening is guarded by a valve of three muscular flaps or cusps, hence the tricuspid valve. The left side carries the bicuspid or mitral valve with two cusps. An easy mnemonic is that 'tri' goes with 'right'. NCERT Class 11, Body Fluids and Circulation.

6. NEET 2020 · Q5

The QRS complex in a standard ECG represents

- (1) Depolarisation of auricles
- (2) Depolarisation of ventricles
- (3) Repolarisation of ventricles
- (4) Repolarisation of auricles

Answer (2)

Sol. The QRS complex in a standard electrocardiogram (ECG) represents the depolarisation of the ventricles, which initiates ventricular contraction. Chapter: Body Fluids and Circulation.

7. NEET 2020 · Q73

Match the following columns and select the correct option.

List I	List II
P) Eosinophils	I) Immune response
Q) Basophils	II) Phagocytosis
R) Neutrophils	III) Release histaminase and destructive enzymes
S) Lymphocytes	IV) Release granules containing histamine

- (1) P-IV, Q-I, R-II, S-III
- (2) P-I, Q-II, R-IV, S-III
- (3) P-II, Q-I, R-III, S-IV
- (4) P-III, Q-IV, R-II, S-I

Answer (4)

Sol. Eosinophils release histaminase and destructive enzymes; basophils release histamine-containing granules; neutrophils are phagocytic; and lymphocytes mediate immune responses. Thus P-III, Q-IV, R-II, S-I. Chapter: Body Fluids and Circulation.

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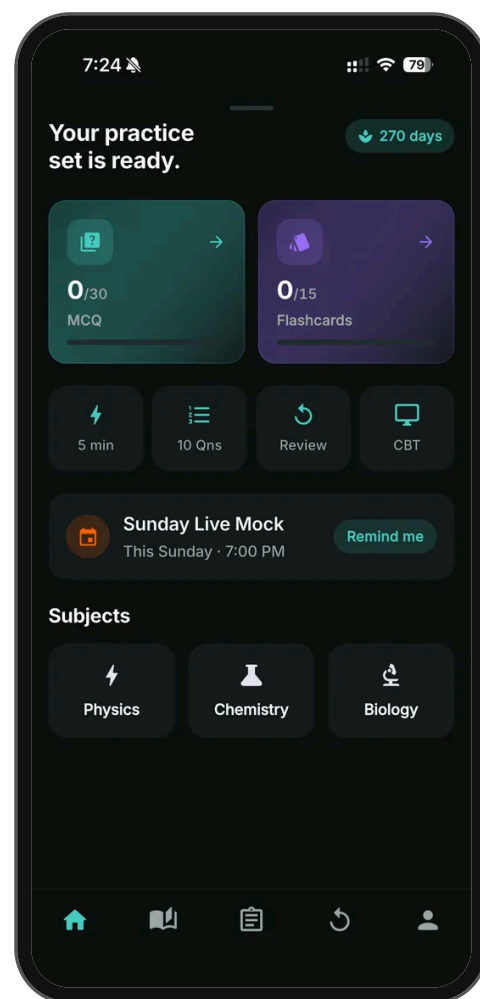
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