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**FINAL TEST OF 1st SEMESTER
ACADEMIC YEAR OF 2024/2025**

Subject : Biology
Day /date : Friday, 20th of November 2024
Grade : XI MIPA
Duration : 90 minutes

1. The plant tissue involved in active cell division, commonly found in young plants, is called **meristematic tissue**.
2. The vascular tissue that moves essential water and minerals from the roots upward is known as **xylem**.
3. The part of the plant responsible for protecting it from external threats is the **epidermis**.
4. Sugars produced by photosynthesis move to other parts of the plant through specialized cells in the **phloem tissue**.
5. Parenchyma cells serve various functions in plants, primarily known for **store nutrients** in the plant structure.
6. Vascular bundles in a ring-like pattern in stems are typical of **dicot** types of plants.
7. The heart chamber that pumps oxygenated blood to the body is the left **Ventricle/bulk kiri/sinister ventricle**.
8. Blood vessels carrying oxygen-poor blood towards the lungs are known as **pulmonary artery**.
9. In the blood, **erythrocytes/RBC** is the main component responsible for carrying oxygen throughout the body.
10. An increase in these cells often indicates the body's immune response to an infection: **leucocyte**.
11. The double circulatory system in humans involves two separate circuits for **oxygenated** and **deoxygenated** blood.
12. Blood pressure is most often measured in **brachial artery** to monitor heart health.
13. The phase of the heart cycle when it relaxes and fills with blood is called **diastole**.
14. Gas exchange between air and blood takes place in the **alveoli** within the lungs.
15. During swallowing, this structure ensures food does not enter the airway: **epiglottis**.
16. Statements about respiratory mucus include its role in trapping particles, being produced by specific cells, and sometimes causing breathing issues. These statements are: **correct, correct and incorrec**.
17. During inhalation, the diaphragm moves downward, allowing air intake as a result of **diaphragm respiration**.
18. The term that describes the regular exchange of air volume during relaxed breathing is **tidal volume**.
19. Smoking affects the respiratory system, especially harming the **alveoli** where gas exchange occurs.
20. The specific type of white blood cell involved in producing antibodies is **lymphocytes**.
21. White blood cells are primarily produced in **bone marrow** within the body.
22. This immune cell type is known for engulfing pathogens directly: **phagocytes include neutrophils and macrophages**.
23. The body's initial barrier against external pathogens is its **skin**, mucous membranes, tears, earwax, mucus, and stomach acid.

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Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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