

# GREENLAWNS HIGH SCHOOL

## FIRST TERMINAL EXAMINATION

STD: 8

BIOLOGY

MARKS: 30

All questions to be answered on composition sheets.

A. Differentiate between the following on the basis of what is given in brackets **IN TABULAR FORM** (5)

1. Xylem and phloem (expenditure of energy for conduction)
2. Nitrogen and iron (required concentration in plants)
3. Spirogyra and ferns (reproduction by)
4. Dahlia and Vallisneria (size of flowers)
5. Veins and arteries (thickness of walls)

B. Give scientific reasons for the following: (7)

1. Root hairs are well suited for absorbing water from the soil. (3 points)
2. Insect-pollinated flowers produce sticky pollen grains. (1 point)
3. Food web provides more stability to an ecosystem than a food chain. (2 points)
4. Veins have valves. (1 point)

C. **Redraw** and complete the table for blood group compatibility under the ABO system. The blood group of each person is given in brackets. Put ✓ for yes and ✗ for no. The first one is done for you. (3)

DONOR	RECIPIENTS			
	Rahul(O)	Hari(AB)	Prem(B)	Ram(A)
Rhea(A)	✗	✓	✗	✓
Mahi(B)				
Sita(AB)				
Arya(O)				

D. 'A person having a cardiac arrest will suddenly lose consciousness and will have abnormal breathing.'

1. State two other symptoms of cardiac arrest. (2)
2. What is the most common cause of cardiac arrest? (1)
3. How is a cardiac arrest different from a heart attack? (2)
4. Name two other heart conditions other than cardiac arrest and heart attack. (2)
5. State three ways of keeping the heart healthy. (3)

E. State the main functions of the following: (5)

1. Tricuspid valve
2. Calyx
3. Green plants in an ecosystem
4. Xylem sclerenchyma
5. Pericardial fluid