



FEDERAL DIRECTORATE OF EDUCATION

Summer Vacation Task

General Science---Class-VIII

**SESSION
2023-24**



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Summer Vacation Homework

Class VIII

General Science

1. Define the following terms: Ecology, Photosynthesis, Respiration
2. Discuss the biotic and abiotic factors involved in the formation of an ecosystem.
3. How many types of interactions are there in an ecosystem?
4. Differentiate between producers and consumers.
5. Draw carbon and oxygen cycle. Also state importance of these cycles in bringing balance and symmetry to the life on the earth.
6. Why sewage water must be treated before releasing it into system?
7. How human activities can help in restoration of an ecosystem.
8. Describe and illustrate the negative effects of human activities on the available resources and their role in disturbing the balance among population.

Project Work(1)

Make a model of food chain and food web by using plastic plants and animals.

9. Define neuron and nervous system.
10. Describe the structure and functions of neuron with the help of a diagram.
11. Name three types of neurons. Also write their functions.
12. Draw a flow chart to explain the parts of human nervous system.
13. Describe the structure of human brain and its functions. Also draw a labeled diagram.
14. Differentiate between Reflex action and Reflex arc. Also state the sequence of nerve impulse in reflex arc.

Project Work(2)

Make a model of Human nervous system with the help of thermopor sheet and cardboard.

Make a poster which shows the plan of healthy activities to maintain the health of brain.

15. Define periodic table, periods, and rows.
16. Identify the names and location of first eighteen elements.
17. Distinguish between metals and non-metals.
18. Suggest why Copper and Aluminium are used in making electrical wires.
19. Recommend which properties of the metals make them suitable for making many objects or their parts. List three examples to justify your answer.

Project Work(3)

Construct an outline of Periodic Table on a chart paper. Show metals with brown color, halogens with yellow color, noble gases with red color, and some non-metals with blue color.

20. Define force and density. State their units and formulas.

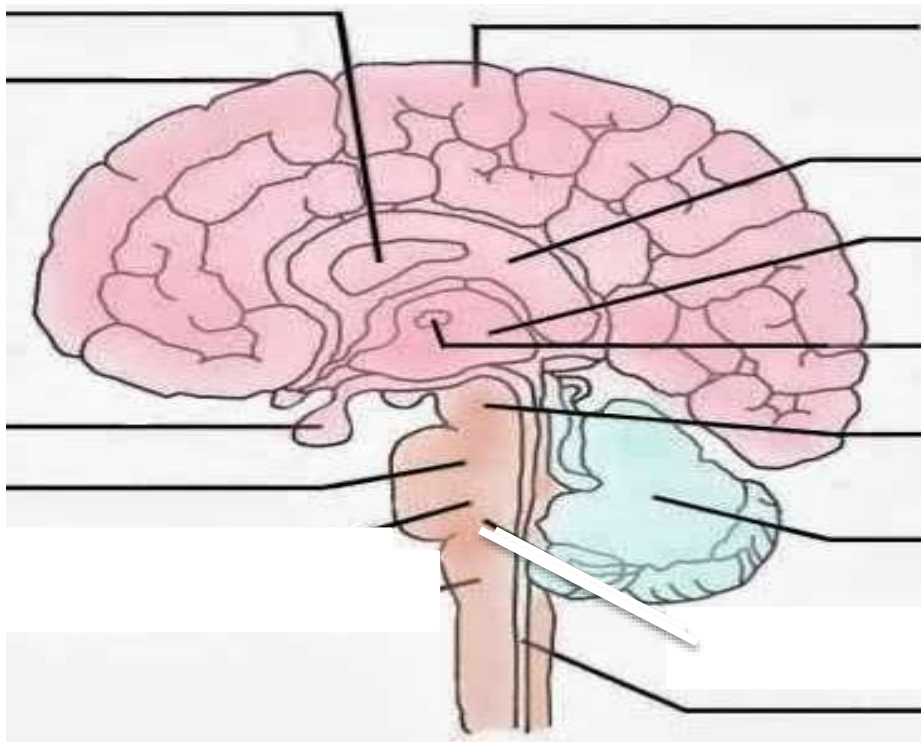
21. Distinguish between balanced and unbalanced forces.
22. Differentiate between floating and sinking objects.
23. Why does the fish float in the middle of the water?
24. Why is atmospheric pressure greatest at the surface of the earth?
25. Illustrate relation between pressure, force and area.

Project Work (4)

Construct a hydraulic elevator to illustrate law of conservation of energy.

REVISION OF ASSIGNED TASK

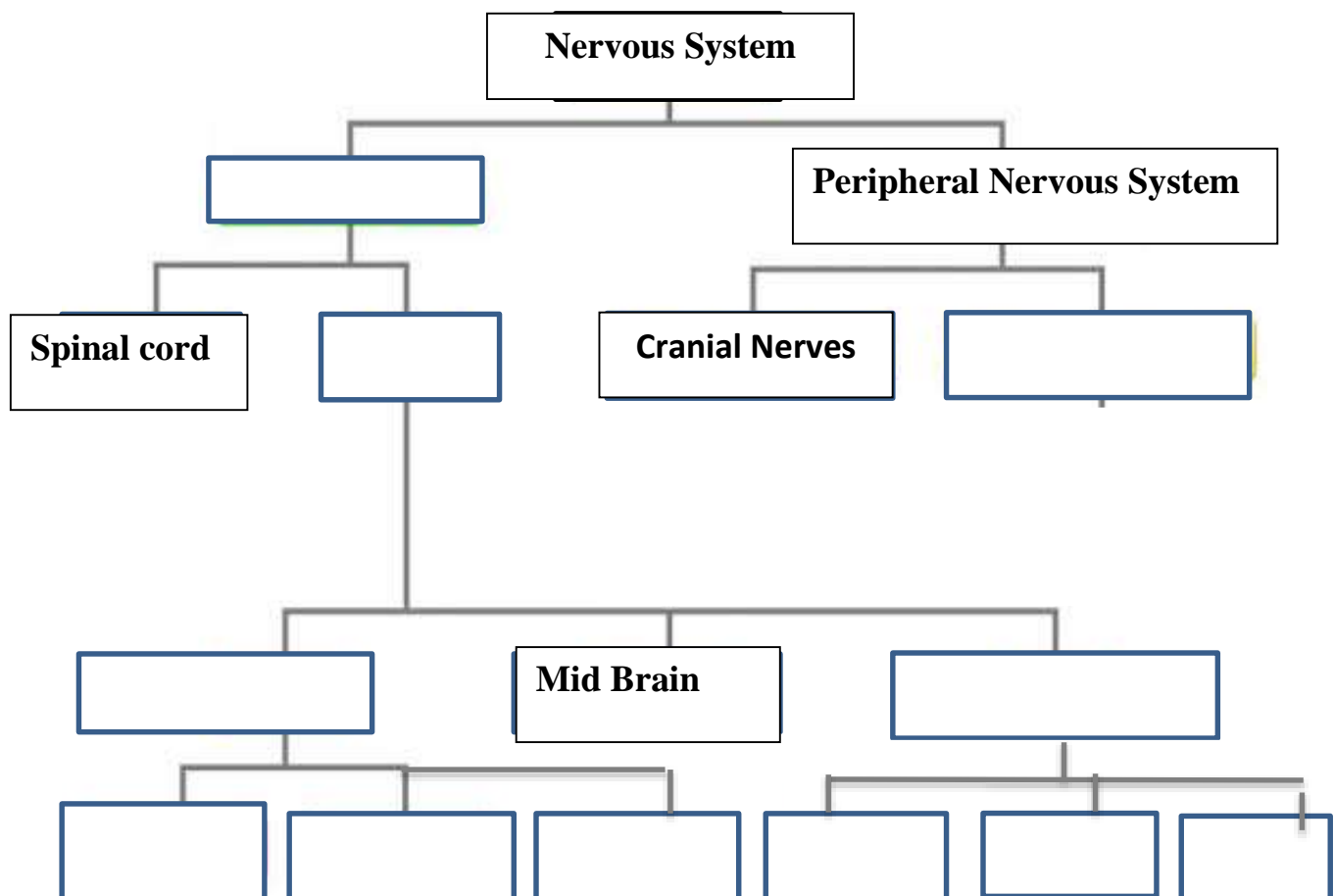
Label the following diagram



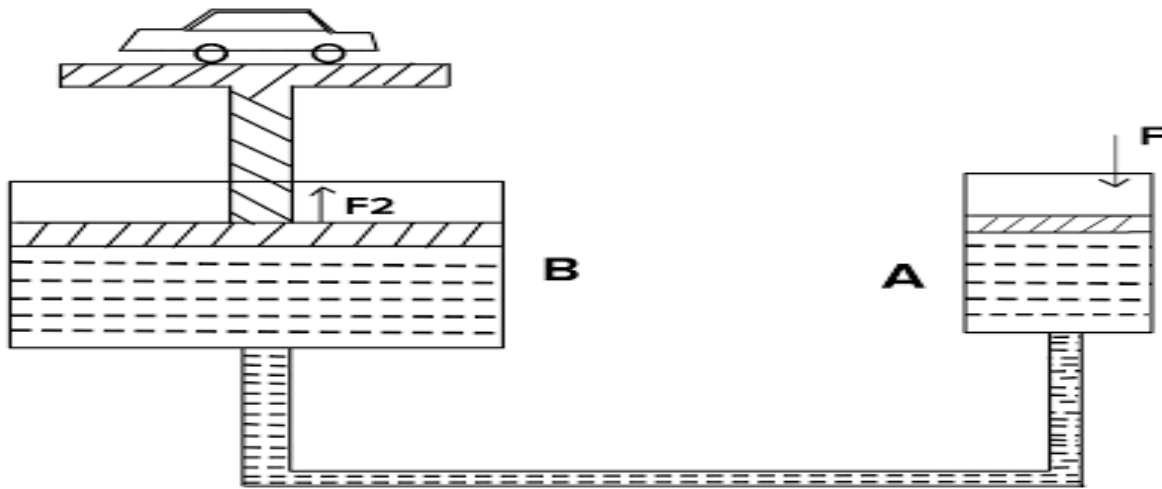
Write symbols of missing elements of periodic table.

1 H							2
3	4	5	6 C	7	8	9	10 Ne
11	12 Mg	13	14	15	16 S	17	18

Complete this flow diagram of nervous system.



Label the diagram of Hydraulic lift.



NOTE

8th Class Summer Vacation Task comprises of Unit 1, 2, 5 and 8 to cover the concepts of Biology, Chemistry and Physics.