

## ANNUAL EXAMINATION - 2077

**Grade: VII**

**Subject: Science**

**Time: 1 hour and 30 minutes**

**Full Marks: 50**

**Pass Marks: 20**

---

### **Group A: Physics [10 \* 2 = 20]**

1. Write two differences between fundamental and derived units.
2. The unit of pressure is a derived unit, why?
3. A car starts to move from rest. If its velocity after 5 seconds is 200m/s, calculate its acceleration.
4. What is force? Write its SI unit.
5. What is lever? State the principle of lever.
6. Define one joule work and one watt power.
7. Find the kinetic energy of the body of mass 50kg moving with velocity of 10m/s.
8. Define compression and rarefaction.
9. What is electricity? Write their types.
10. Differentiate between open circuit and closed circuit.

### **Group B: Chemistry [5 \* 2 = 10]**

11. What is element?
12. Write the molecular formula of sodium chloride and Hydrochloric acid.
13. Define dilute and concentrated solution.
14. What are detergents? Why are they called soap less soap?
15. Why are organic fertilizers better than chemical fertilizer?

**Group C: Biology [5 \* 2 = 10]**

16. Draw a neat picture of fish and label its parts.
17. Why is frog kept under amphibians?
18. Why are leaves necessary for plants?
19. Write two important functions of flower.
20. Draw neat picture of urinary system of human beings.

**Group D: Environment Science [5 \* 2 = 10]**

21. Define sustainable development.
22. Write relationship between environment and the development.
23. What are natural resources?
24. Mention the importance of water shed.
25. Explain the relationship between producers and consumers.

*Best Wishes!!!*