

## ANNUAL EXAMINATION - 2077

**Grade: VIII**

**Subject: Science**

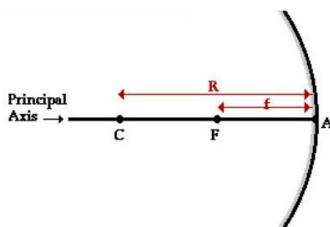
**Time: 1 hour and 30 minutes**

**Full Marks: 50**

**Pass Marks: 20**

### Group A: Physics [20 Marks]

1. Define fundamental unit. Write the fundamental units of mass and temperature in SI system. [1+1]
2. Define acceleration. Motor travels with the speed of 30m/s, how far does it travel in one hour. [1+2]
3. What is meant by 1 pascal pressure? Prove that  $p = h \cdot g$ . [1+2]
4. What is thermometer? In which principle does it base on? [1+1]
5. What is concave mirror? Answer the following questions on the basis of given diagram. [1+1+1]



- i. What type of mirror is shown on the figure?
  - ii. Write any two properties of image formed.
6. What is lever? Why is velocity ratio always greater than the mechanical advantage? [1+1]
  7. What is reverberation? Big cinema halls are carpeted and made of some rough materials. Why? [1+2]
  8. What is the full form of MCB? A dry cell does not have polarization. Why? [1+1]

### Group B: Chemistry [10 Marks]

9. Define molecular formula. Write down the molecular formula of given compounds by crisscross method. [1+1+1]
  - i. Sodium chloride
  - ii. Aluminum chloride
10. What is centrifugation? Which methods are used in separating mixture of? [1+0.5+0.5]
  - i. Sand and camphor
  - ii. Blue ink and red ink
11. Draw atomic structures of oxygen atom and sodium atom. [1.5+1.5]
12. Write two properties of salt. [2]

**Group C: Biology [10 Marks]**

13. What is virus? Draw a neat of bacteriophage virus. [1+2]  
14. What is meristematic tissue? Write one function of xylem. [1+1]  
15. What is blood? Write two differences between RBC and WBC. [1+2]  
16. Write two differences between monocot seed and dicot seed. [2]

**Group C: Long Question Answer [10 Marks]**

17. What is timber tree? Name any two medicinal herbs found in Himalayan region of Nepal. [1+1]  
18. What is greenhouse effect? Write its two causes and two effects of greenhouse effect. [1+1+1]  
19. Write any two functions of WWF. [2]  
20. Define sustainable development. Mention its any two principles. [1+2]

*Best Wishes!!!*