**NORTH POINT SENIOR SECONDARY BOARDING SCHOOL, RAJARHAT**

**Class IX**

**Subject : Science**

**Assignment on Chapter 5 (The Fundamental Unit Of Life)**

**Answer the following questions:**

**1. Why is Plasma Membrane called a selective permeable membrane and Cell Wall is called as fully permeable membrane?**

**2. Which cell organelle, you think, is known as "Head Quarter" of the cell and why?**

**3. What is the nuclear region of the prokaryotic cells called?**

**4. Where is Ribosomes synthesized? State the function of this organelle.**

**5. What will happen to an animal cell if placed in the hypertonic solution?**

**6. Name the only cell organelle seen in prokaryotic cell.**

**7. What is plasmolysis?**

**8. Why does the skin of your finger shrink when you wash clothes for a long time?**

**9. Name any three organelles with double membranes.**

**10. Name the mechanism by which substances like Carbon-di-Oxide and Water move in and out of the cell? Discuss.**

**11. Which plastid is responsible for yellow and other colours in petals of flower?**

**12. Where from a lysosome arise?**

**13. Which cell organelle synthesis lipids?**

**14. How many membranes are present in vacuole?**

**15. Name an organelle without a cell membrane.**

**16. What would happen to the life of a cell if there was no Golgi apparatus?**

**17. What do you mean by membrane biogenesis? Mention the organelle involved in it.**

**18. State one similarity and one difference between mitochondria and plastid.**

**19. Name the control room of the and show its components.**

**20. Why cell is known as the structural and functional unit of living organisms?**