

**Q.1 Fill in the blanks:**

[05]

1. 1 light year = ..... m.
2. The substance that are form after chemical reaction are called .....
3. Water contains ..... atoms of Hydrogen.
4. 1 fermi = ..... m.
5. Melting of wax is ..... change.

**Q.2 Write in one or two sentence?**

[10]

1. What is chemical change?
2. What is valency?
3. What are radical and define their types with examples.
4. State the characteristics of physical change, in brief.
5. Explain hydrolysis?

**Q.3 Answer the following in detail:**

[15]

1. Explain catalyst and their classification in detail with examples.
2. Explain any three types of chemical reactions.
3. Name the compound.  
(1)  $\text{Na}_3\text{Fe}(\text{CN})_6$                       (2)  $\text{AgS}_2\text{O}_3$   
(3)  $\text{CO}$                                       (4)  $\text{KMnO}_4$
4. The size of a particle is  $4.6 \mu$  Express it in meter.
5. The mass of an atom of oxygen is  $16.0 \mu$ , Express it in kg.

**\*Best of Luck\***