

English - ICOM Part 2 English chapter 14 Short Questions Preparation

Q1. What do you mean by spontaneous generation?

Ans 1: Spontaneous generation means the production of living things from nonliving things. Pasteur proved it a wrong concept. He claimed that if a substance is sufficiently heated, no bacteria would be produced in it.

Q2. How did Pasteur show the way to other scientists?

Ans 1: Pasteur proved that diseases are caused by germs and germs can be killed. The fame gained by Pasteur motivated other scientists to try similar methods of cure for other diseases. In just 10 years from 1880 to 1890, they discovered the germs of consumption, diphtheria, typhoid, lock pain, cholera and Malta Fever.

Q3. What did Pasteur discover about bacteria in milk?

Ans 1: He discovered that some germs in milk are very difficult to destroy. The bacteria in milk can be destroyed if the temperature is raised 10°C above boiling point.

Q4. When and whom did Pasteur marry?

Ans 1: He married the daughter of the Rector of Academy in Strasberg University in 1850. At that time he was the Deputy Professor of Chemistry at the University of Strasberg.

Q5. Give an account of Pasteur's discoveries.

Ans 1: Pasteur was a great scientist. He was a true lover of his people. He discovered the germs and treatment of many diseases of animals and human beings including hydrophobia, Anthrax, Silk worm disease and puerperal fever.

Q6. How did Pasteur prove that spontaneous generation was not a fact?

Ans 1: In 1860, he proved that if a substance is sufficiently heated and the air is in contact with it is filtered; bacteria do not develop in it. In this way he proved that spontaneous generation was not a fact.

Q7. Where did Pasteur become the Deputy Professor of Chemistry?

Ans 1: He became Deputy Professor of Chemistry at the University of Strasberg.

Q8. What are the symptoms of Hydrophobia?

Ans 1: Hydrophobia or Rabies is a dangerous human disease caused by the bite of a mad dog. Its signs are : restlessness, shudder, thirst, impossibility of swallowing and fits of rage.

Q9. How did Pasteur discover treatment for cattle disease, Anthrax?

Ans 1: Pasteur cultivated the Anthrax germs in such a way that they become weak. He injected them into the body of an animal suffering from Anthrax. The animal developed a slight form of the disease first but recovered. He found out that the method protected the animal from the deadly form of the disease.

Q10. Describe Pasteur's treatment of Hydrophobia.

Ans 1: Pasteur applied inoculation to hydrophobia. He tried to take some of the nervous tissues of an animal which had died of disease and by exposing the spinal cord of rabbits to the dry air, it weakened the cells until after fourteen days, they became harmless. He injected them into the body of a boy Joseph,
