MCQ on Immunology- Immunization

1. The process of introduction of weakened pathogen into human body is called
   a) Immunization
   b) vaccination
   c) attenuation
   d) none of these

2. The first vaccine was developed by
   a) Louis Pasteur
   b) Edward Jenner
   c) Carl Landsteiner
   d) Joseph Miester

3. The concept of vaccination was first developed by
   a) Louis Pasteur
   b) Edward Jenner
   c) Carl Landsteiner
   d) Joseph Miester
4. The process of weakening a pathogen is called
   a) vaccination
   b) attenuation
   c) immunization
   d) virulence reduction

5. The first vaccine developed by Louis Pasteur was against
   a) Pox virus
   b) hepatitis virus
   c) rabies virus
   d) none of these

6. A vaccine can be
   a) an antigenic protein
   b) weakened pathogen
   c) live attenuated pathogen
   d) all of these

7. Passive immunisation include
   a) introduction of antibodies directly
   b) transfer of maternal antibodies across placenta
   c) transfer of lymphocyte directly
   d) all of these

8. Which of the following statement is true regarding vaccination
   a) vaccination is a method of active immunisation
   b) vaccination is a method of passive immunisation
   c) vaccination is a method of artificial passive immunisation
   d) vaccination is a method of natural passive immunization
9. Active immunity may be gained by
   a) natural infection
   b) vaccines
   c) toxoids
   d) all of these

10. Which of the following is a combined vaccine
   a) Hepatitis B vaccine
   b) Hib vaccine
   c) Var vaccine
   d) DPT vaccine

11. The first recombinant antigen vaccine approved for human use is
   a) Hepatitis B vaccine
   b) Hib vaccine
   c) Var vaccine
   d) DPT vaccine

12. Plasmids encoding antigenic protein from a pathogen that is
    directly injected into the cells where it express constitute
    a) protein vaccines
    b) nucleotide vaccines
    c) DNA vaccines
    d) recombined vaccines

13. All the given vaccines are attenuated or inactivated whole pathogen except
    a) salk
    b) sabin
    c) hepatitis A
    d) tetanus
14. Which of the following statements are true regarding polio vaccines
a) Salk and Sabin are polio vaccines
b) Sabin is live attenuated polio vaccine
c) Salk is an inactivated polio vaccine
d) all of these

15. Which of the following is a polysaccharide vaccine
a) anthrax vaccine
b) rabies vaccine
c) hepatitis A
d) Hib vaccine

Answers
1. b) vaccination
2. a) Louis Pasteur
3. b) Edward Jenner
4. b) attenuation
5. c) rabies virus
6. d) all of these
7. d) all of these
8. a) vaccination is a method of active immunisation
9. d) all of these
10. d) DPT vaccine
11. a) Hepatitis B vaccine
12. c) DNA vaccines
13. d) tetanus
14. a) Salk and Sabin are polio vaccines
15. d) Hib vaccine (Haemophilus influenza type b)