**Dr Mohd Abu Zaid**

**6th Assignment for BSc (H) Biotechnology Sem 4 subject Immunology**

**Fill ups**

1. Defective T lymphocyte may result in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hypersensitivity reactions.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reactions are also called atopy.
3. Hay fever, food allergies are example of \_\_\_\_\_\_\_\_\_\_\_\_\_ hypersensitivity reactions
4. During allergy increased production of mucus nasal mucosa is due to Mast cells producing\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ,
5. The best vaccines are those that stimulate the development of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells
6. Antibodies other than Ig E may causing tissue injury and disease is called \_\_\_\_\_\_\_\_\_\_\_ reactions.
7. Contact sensitivity to chemicals is usually a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mediated reaction
8. When immune complexes cause damage to host cells this is called, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hypersensitive reaction
9. Antagonists of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have proved to be beneficial in patients with rheumatoid arthritis and inflammatory bowel disease.
10. Type of immunity that generally induced by most vaccines is\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Short notes**

1. Define the term hypersensitivity
2. What do you mean by late phase reaction hypersensitivity reactions?
3. Why a type of hypersensitivity is called immediate hypersensitivity?
4. Explain the meaning of anaphylaxis
5. What is desensitization in reference to hypersensitivity.
6. Explain how Antigen-Antibody Complexes. result in different clinical conditions
7. How antibodies produced against microbes causes. diseases to host, Give examples
8. What are super antigens?
9. Explain what is meant by epitope spreading.
10. Differentiate between natural and artificial form of active and passive vaccinations

**Essay type questions**

1. Explain. Different types of hypersensitivity reactions
2. Explain in detail T cell mediated hypersensitivity. How it causes tissue injury to host.
3. What are vaccine and vaccination? Explain the properties of an ideal vaccines