



Department of Pathology
Azra Nahod Medical College
Short Test-4, 28 February 2017
MBBS 3rd Year (MCQ)
(Immunology)

Time Allowed: 15 min

Total Marks: 15

Name: Sanaullah

Roll No: E16-029

Date: _____

Instructions:

1. All objective questions are to be attempted on the paper and returned to the invigilator within specified time after you have received the question paper.
2. Any cuttings or overwriting in answering the objective part will not be accepted and no marks will be given even if the answer is correct.

1. Which category of hypersensitivity best describes haemolytic disease of the newborn caused by Rh incompatibility?

- a) Anaphylactic
- b) Cytotoxic II ✓
- c) Immune complex
- d) Delayed
- e) All of the above

2. A child stung by a bee experiences respiratory distress within minutes and lapses into unconsciousness. This reaction is probably mediated by?

- a) IgE antibody ✓
- b) IgG antibody
- c) Sensitized T cells
- d) Complement
- e) IgM antibody

3. B and T cells are produced by stem cells that are formed in:

- a) Bone marrow ✓
- b) The liver
- c) The circulatory system
- d) The spleen
- e) The lymph nodes

4. Which of the following substances will not stimulate an immune response unless they are bound to a larger molecule?
- a) Antigen
 - b) Virus
 - c) Hapten ✓
 - d) Mitogen
 - e) Antibody
5. The specificity of an antibody is due to:
- a) its valence
 - b) The heavy chains
 - c) The Fc portion of the molecule
 - d) The variable portion of the heavy and light chain ✓
 - e) All of the above
6. The classical complement pathway is initiated by interaction of C1 with which of the following:
- ~~a) Antigen~~
 - b) Factor B
 - c) Antigen-Antibody complex ✓
 - d) Bacterial lipopolysaccharide
 - e) All of the above
7. IgM present on surface of naïve mature B cells is:
- a) Pentamer
 - b) Trimer
 - ~~c) Dimer~~
 - d) Monomer ✓
 - e) All of the above
8. Pattern recognition receptors (PRR) include:
- a) LPS
 - b) PAMPs ✓
 - c) Lipoteichoic acid
 - d) Lectin like molecules ✓
 - e) Unmethylated CpG sequences
9. The function of C3a and C5a is to cause:
- a) Cell lysis
 - b) Vascular permeability ✓
 - c) Phagocytosis
 - d) Aggregation of C4
 - ~~e) None of the above~~

10. Which of the following immunoglobulin crosses the placenta?

- a) IgA
- b) IgD
- c) IgG ✓
- d) IgM
- e) IgE

11. MHC class II molecules are critically important in which immune response

- a) Antigen presentation ✓
- b) Phagocytosis
- c) Immunoglobulin class switching
- d) Opsonisation
- e) CD8 cell cytotoxicity

12. Prior to class switching all B cells bound to antigen have which of the following antibody class on their surface?

- a) IgM ✓
- b) IgG
- c) IgA
- d) IgD ✗
- e) IgE

13. The ability of the immune system to recognize self versus nonself antigen is an example of:

- a) Specific immunity
- b) Tolerance ✓
- c) Cell mediated immunity
- d) Antigenic immunity
- e) Humoral immunity

14. The specificity of an antibody is due to:

- a) its valency
- b) The heavy chains
- c) The Fc portion of the molecule
- d) The variable portion of the heavy and light chain ✓
- e) The variable portion of heavy chain ✓

15. Grafts between genetically identical twins:

- a) Are rejected slowly as a result of minor histocompatibility antigens
- b) Are subject to hyperacute rejection
- c) Are not rejected even without immunosuppression ✓
- d) Are subject to acute rejection
- e) None of the above