UNIT III (Immunity, Immunoglobulins, MHC, Hypersensitivity, Vaccines, Hybridoma, Blood Products)

Fill in the Blanks

1. The immunity present at birth is called _____ immunity.
2. Antibodies are also known as _____.
3. The antigen-presenting molecules in humans are called _____.
4. Type I hypersensitivity is also known as _____.
5. Hybridoma cells are a fusion of _____ and _____.

MCQs

6. Humoral immunity is mediated by:
   a) T cells
   b) B cells
   c) NK cells
   d) Macrophages
7. Which class of immunoglobulin is first produced during infection?
   a) IgG
   b) IgM
   c) IgA
   d) IgE
8. MHC Class I molecules are present on:
   a) All nucleated cells
   b) Only B cells
   c) Only T cells
   d) RBCs
9. Type II hypersensitivity involves:
   a) IgE
   b) IgG & IgM
   c) IgD
   d) None
10. Vaccines prepared from toxins are called:
    a) Live vaccines
    b) Toxoids
    c) Killed vaccines
    d) Recombinant vaccines
11. The technique used to produce monoclonal antibodies is:
    a) PCR
    b) Hybridoma technology
    c) Western blotting
    d) ELISA
12. Plasma substitutes are used in case of:
    a) Anemia
    b) Blood loss
    c) Diabetes
    d) Hypertension
13. Which antibody is present in mucosal secretions?
    a) IgA
    b) IgM

c) IgG
d) IgE

✅ True / False

14. Immunoglobulins are proteins.
15. MHC molecules help in antigen presentation.
16. Type IV hypersensitivity is delayed-type.
17. Hybridomas can continuously produce monoclonal antibodies.
18. Plasma substitutes are used to treat cancer.

👍 Yes / No

19. Can vaccines prevent diseases?
20. Do B cells produce antibodies?
21. Is IgE associated with allergies?
22. Can monoclonal antibodies be used in therapy?
23. Is whole blood always required in transfusion?
24. Are toxoids inactivated toxins?
25. Is MHC important for immune recognition?

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🧩 Fill in the Blanks

1. **Innate**
2. **Immunoglobulins**
3. **Major Histocompatibility Complex (MHC)**
4. **Allergy / Anaphylaxis**
5. **B-cell + Myeloma cell**

❓ MCQs

6. **b) B cells**
7. **b) IgM**
8. **a) All nucleated cells**
9. **b) IgG & IgM**
10. **b) Toxoids**
11. **b) Hybridoma technology**
12. **b) Blood loss**
13. **a) IgA**

✅ True / False

14. True
15. True
16. True
17. True
18. False

👍 Yes / No

19. Yes
20. Yes
21. Yes
22. Yes
23. No
24. Yes
25. Yes