

# IVB. IMMUNE SYSTEM

(1 x 2) + (1 x 4) = 6 Marks

## ROOT POINTS

1. **Immunity** is the overall ability of an organism to fight against the 'disease causing organisms'.
2. **Immune system** is the 'body guard system' of our bodies.
3. **Skin** forms the **first line of defence**.
4. **Second line of defence** is formed by phagocytes, NK cells, high temperature.
5. Antibodies, T-Cells and B cells form the **third line of defence**.
6. **Complement proteins** are a group of inactive plasma proteins and cell surface proteins. [IPE]
7. **Colostrum**: Colostrum is the first milk produced by the mother after delivery. [IPE]
8. **Perforins** cause bursting of the cell by the entry of the fluids. [IPE]
9. **Granzymes** activate certain proteins to destroy infected cell . [IPE]
10. **B-cells** are **lymphocytes** capable of producing antibodies. [IPE]
11. B-cells are produced from the **bone marrow** of adult mammals. [IPE]
12. Mature B cells produce various types of **antibodies**. [IPE]

## FRUITY Qs OF IPE

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1. Write the names of any four mononuclear phagocytes.
2. What are complement proteins?
3. "Colostrum is very much essential for the new born infants". Justify.
4. Differentiate between perforins and granzymes.
5. Write short notes on B-cells.
6. Write short notes on immunoglobulins.
7. Describe various types of barriers of innate immunity.
8. Explain the mechanism by which HIV multiplies and leads to AIDS