

1. Fill in the blanks:- (1x5=5)

- Vaccine provides.....immunity.
- Antibody is produced bycell.
- MHC gene is located on.....chromosome.
- Endogenous Ag is processed by.....class of MHC molecule.
- The Ab cross the placenta is.....

2. Match the column:- (1x5=5)

- | A | B |
|---------------------------------|------------------------------------|
| a) skin | i) Freeland's incomplete solutions |
| b) vaccine | ii) Inflammatory response |
| c) B ₂ microglobulin | iii) active immunity |
| d) Adjuvant | iv) innate immunity |
| e) vasodilation | v) MHC-I |

3. Write short notes on any two. (~~10~~ $(7\frac{1}{2} \times 2 = 15)$)

- Active & passive Immunity.
- Phagocytosis.
- Cytokines properties.
- Features of class I MHC molecule.

4. Briefly describe any ^{Three} ~~one~~ (~~15~~ $(15 \times 3 = 45)$)

- What are cytokines? What are the different classes of cytokines? Write down the mode of action of cytokines?
- Briefly describe the structural and functional features of MHC-II molecule.
- Five differences between innate and adaptive immunity?
- What is inflammatory response?