

KATHMANDU UNIVERSITY
End Semester Examination
February, 2025

Marks Scored:

Level : B.Tech.

Year : II

Exam Roll No. :

Time: 30 mins.

Registration No.:

Course : BIOT 207

Semester : II

F. M. : 20

Date : 11 FEB 2025

SECTION "A"

[10 Q. × 1 = 10 marks]

Select the mark [X] in the most appropriate answer.

- Which is the right order of the steps involved in differentiation of T cells?
i) Activated T cell generation into blast cell
ii) Proliferation of blast cell
iii) Differentiation of daughter cells
iv) Differentiation into subsets of T cells
 iii)—ii)—i)—iv) iv)—ii)—iii)—i) i)—ii)—iii)—iv) ii)—i)—iv)—iii)
- MHC molecules are the set of genes that code cell surface proteins essential for _____
 Innate immunity system
 Adaptive immunity system
 Both innate and adaptive systems
 Coding for proteins is not a function of MHC molecules
- _____ is NOT the domain of the light chain of the fully functional antibody.
 Constant domain (C) Variable domain (V)
 Joining domain (J) Diversity domain (D)
- Which of the following pathways come under adaptive immunity?
 Classical pathway MB-Lectin pathway
 Alternative pathway Complement pathway is under innate immunity
- Endogenous proteins are processed in _____.
 cytosol endosomes lysosome endoplasmic reticulum
- _____ is NOT an Fc-mediated antibody effector function.
 Antibody-dependent cell-mediated cytotoxicity
 Antibody-dependent cellular phagocytosis
 Complement-dependent cytotoxicity
 Antibody-dependent complement cytotoxicity
- Which portion of antibody gets deleted during class switch recombination?
 Antibody-light chain locus Antibody-heavy chain locus
 Antibody-Fc fragment Antibody-Fab fragment

18. Double positive thymocytes:

19. Humoral immune response:

20. Thymus independent antigens:

