



VIT

Vellore Institute of Technology

Approved by the Government of Tamil Nadu

School of Bio Sciences and Technology

Fall Semester 2024- 2025

Continuous Assessment Test – I

Programme Name & Branch: B.Tech Biotechnology

Course Name & code : Immunology & BBIT305L

Class Number (s) : VL2024250101235 & VL2024250101234

Slot : A2+TA2

Faculty Name (s) : Dr.Gayathri.M & Dr. Subathra Devi C

Exam Duration: 90 Min.

Maximum Marks: 50

General instruction(s): Draw diagrams and illustrations wherever necessary

Answer all the questions

Q.No.	Question	Max Marks	CO	BL
1.	Examine how hematopoietic stem cells (HSCs) contribute to blood system regeneration and regulation	10	CO	BL1
2.	Describe the major elements of the innate immune system that provide defense against viral infections. Also add a note on Pattern recognition receptors.	10	CO	BL2
3.	Vivek is infected with <i>Streptococci</i> (sore throat), pathogen is colonized in the throat and releasing toxins & M protein. How these antigens are trapped by the immune system? Discuss the role of appropriate lymphoid organs.	10	CO	BL3
4.	Compare and contrast primary and secondary immune response and explain the cardinal features of adaptive immunity.	10	CO	BL4
5.	Imagine that yesterday you got a splinter in your big toe. Today the area looks inflamed. Answer these questions: a) List the symptoms that indicate the area is inflamed? b) How did your immune system known to generate an inflammation response at this site? c) What cells cause the pus to form? d) Comment on diapedesis	10 2 4 2 2	CO	BL5