GRES SOLEME

USN		15BT5
		Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019
		Immunotechnology
Tim	ie: í	3 hrs. Max. Marks: 80
	N	ote: Answer any FIVE full questions, choosing ONE full question from each module.
1	a.	
	me: 3 N a. b. c. a. b. a. b. a. b.	List out the different barriers of innate immune response and add a note on Interfero
	c.	activity. (06 Marks Explain the structure of Immunoglobulin molecule (IgG). (06 Marks)
		OR
2	a.	Name the two circulative system of human body and draw the structure of lymph node.
	b.	Macrophages makes a second line of defence. Justify the statement in a labeled diagram.
	C	Discount de la Company (06 Marks)
	С.	Discuss the various function of Immunoglobulin molecule. (04 Marks)
2		Module-2
3	a.	How would you say that Immunoglobulin gene rearrangement mechanism creates antibod diversity? (08 Marks
	b.	Enumerate the structural difference between MHC – I and MHC – II receptors. (08 Marks
		OR
4	a.	Define Monoclonal Antibodies. Explain the process of hybridoma technology. (08 Marks
	b.	Illustrate the process of endocytic pathway of Antigen processing and presentation in a flow
		diagram. (08 Marks
		Module-3
5	a.	Define Complement system and analyse the mechanism of classical pathway of complement
	b.	Explain in brief the mechanism of AIDS. (08 Marks) (08 Marks)
		(00 Marks
6	0	What is Hymanson sitivity 2 Dradicately and a state of the state of th
		What is Hypersensitivity? Predict the mechanism of allergic response. (08 Marks List the different types of autoimmune disorders. Discuss the mechanism behin
		Rheumatoid arthritis. (08 Marks

a. Define Graft. Explain the different types of graft with suitable example.
b. Predict the role of MHC molecules in allograft rejection.
c. Add a note on classification of vaccines. (04 Marks) (08 Marks) (04 Marks)

OR

(04 Marks)

What are Hematopoietic stem cells? Discuss their application in transplantation 8 (05 Marks) immunology. Identify the process for designing Recombinant DNA vaccines taking an example. (07 Marks) **b**. (04 Marks) Add a note on Tumor Antigens. Module-5 Describe the process of Immuno electrophoresis. (05 Marks) 9 a. Explain the principle of Radio Immuno Assay (RIA). (05 Marks) b. List the different type of ELISA and explain the principle of indirect ELISA. (06 Marks) OR Describe the process of Rocket Immuno electrophoresis (RIE). (05 Marks) 10 Explain the principle involved in ABO blood grouping. (07 Marks)

What is 'FACS'? Add a note on its applications.