

Paper ID : 154414

Roll No.

### B.TECH.

## Theory Examination (Semester-IV) 2015-16

#### **IMMUNOLOGY**

Time: 3 Hours

Max. Marks: 100

#### Section-A

- Q1. Attempt all parts. All parts carry equal marks. Write answer of each part in short.  $(2\times10=20)$ 
  - (a) Define immunogenicity and Antigenecity.
  - (b) Differentiate between Cytotoxic T-cells and Helper T-cells.
  - (c) Elaborate the principle of Cross Reactivity.
  - (d) Differentiate between Hepten and Adjuvant.
  - (e) What is central immune tolerance?

(1) P.T.O.

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06/280/35/875	Firstr	stR anker (c) Explain the	arthritis? Explain.	r.cor			(a) What are	> Q2. Attempt any fi	ww.F r.	
	are the auranages and thourantages of Mao.	Explain the principle of Hybridoma Technology.What	Explain.	nity. Autoimmunity leads to the formation of immune complexes in the joints leading to Rheumatoid	Write down the factors responsible for autoimmu-	also explain DNA vaccines.	What are Toxoids? How are used in vaccination and	Attempt any five parts. All parts carry equal marks: (5×10=50)	Section-B	What are the four cardinal signs of Inflammation?
(3) P.T.O.	(c) Delayed type hyper sensitivity	(b) Respiratory Burst	(a) Principle and application of ELISA	Q3. Write down the short notes on the following-	$(2 \times 15 = 30)$	Note: Attempt any two questions from this section.	Section-C	(h) Expalain with diagram the process of thymic education.	pendent antigen? Explain with suitable example.	(g) What are the Thymus dependent and thymus inde-
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Q4. Explain the Exogenous and Endogenous pathway of antif.com gen processing.

Q5.	What are the primary and secondary immunodeficiency dis-
	eases? How HIV defeats our immune system? Explain In detail

**(4)** 

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