Seat	No.			
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## SK-123

September-2020

B.Sc., Sem.-VI

CC-309: Biochemistry (Immunology) (New Course)

Time: 2 Ho	ours] [Max. Marks	: 50
Instructions	<ul><li>(ii) Attempt any three questions in Section-I.</li><li>(iii) Question-9 in Section-II is compulsory.</li></ul>	
1 777.5	SECTION-I	14
	a note on: Cells and organs of immune system.  Discuss microbial enzymes as invasiveness factor.	7
(b)	State differences between Exotoxin and Endotoxin.	7
3. Define	e complements and discuss the classical and MBL pathway of their activation.	14
4. (a)	Explain: Structure and functions of immunoglobulin.	7
(b)	What is a precipitin curve? Discuss.	7
5. What	is ELISA? List various types of ELISA and explain any two in detail.	14
6. (a)	Discuss steps involved in production of monoclonal antibodies.	7
	Explain: Compliment fixation test (CFT)	7
7. Write	a detail note on Type I hypersensitivity reaction.	14
8. (a)	Define vaccine and discuss different types of vaccine.	7
(b)	List various types of Graft rejection and the mechanism of rejection.	7
SK-123		Р.Т.О.

- 9. Attempt any eight:
  - (1) Define LD<sub>50</sub>
  - (2) What is the chemical nature of endotoxin?
  - (3) List portals of entry for microbs.
  - (4) Define: primary pathogen.
  - (5) State a function of Lysozyme.
  - (6) What are heptanes? Give an example.
  - (7) What is avidity and affinity?
  - (8) What is the role of an adjuvant?
  - (9) Define: Antibody titre.
  - (10) State the full form of RIA
  - (11) Which radioactive compound is used in RIA?
  - (12) Who discovered Hybridoma technique?
  - (13) Define: Hypersentivity.
  - (14) Give an example of Type II hypersensitive reaction.
  - (15) What is Transplantation?
  - (16) What is a passive immunization?

Seat No.:	
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## **SK-123**

September-2020

B.Sc., Sem.-VI

## CC-309: Biochemistry (Immunology & Bacterial Genetics) (Old Course)

		(Old Course)		
Time : 2 Hours] [Max. Mar]			ks:50	
Instru	(ii) Attempt an	ns in Section-I carry equal marks.  by three questions in Section-I.  in Section-II is compulsory.		
	leita a casta an a Calla and a	SECTION-I	14	
1. V	rite a note on : Cells and o	rgans of immune system.		
2. (	) Discuss microbial enzy	ymes as invasiveness factor.	7	
		een Exotoxin and Endotoxin.	7	
3. [	efine complements and dis	cuss the classical and MBL pathway of their activation.	. 14	
4. (2	Explain: Structure and	functions of immunoglobulin.	7	
(1			7	
5. V	rite a detail note on Type l	I hypersensitivity reaction.	14	
6. (a	) Discuss steps involved	in production of monoclonal antibodies.	7	
(1	) Explain : Compliment	fixation test (CFT).	7	
7.	escribe process of conjuga	tion in detail.	14	
8. (	) Discuss generalized T	ransduction.	7	
( SK-12.		chromosome mapping by interrupted conjugation.	7 P.T.O.	

- 9. Attempt any eight:
  - (1) Define LD<sub>50</sub>
  - (2) What is the chemical nature of endotoxin?
  - (3) List portals of entry for microbs.
  - (4) Define: primary pathogen.
  - (5) State a function of Lysozyme.
  - (6) What are heptanes? Give an example.
  - (7) What is avidity and affinity?
  - (8) What is the role of an adjuvant?
  - (9) Define: Antibody titre.
  - (10) State the full form of RIA.
  - (11) Which radioactive compound is used in RIA?
  - (12) Who discovered Hybridoma technique?
  - (13) Define: Hypersentivity
  - (14) Give an example of Type II hypersensitive reaction.
  - (15) Define transformation.
  - (16) Name two commonly used markers in specialized transduction.