Bachelor of Science (B.Sc.)-I (CBCS Pattern) Second Semester CBCS

USBCT-C04 - Biochemistry Paper-II : Clinical Biochemistry and Immunology

	Pages: 2 ne: Three H	ours * 3 6 4 6 *	Max. Marks : 50
	Notes:	All questions are compulsory and carry equal marks.	
1.	Disc	cuss the structure and functions of liver. OR	10
	a)	What is jaundice? Discuss their types.	2½
	b)	Discuss the Van der Bergh reaction for determination of serum bilirul	bin. 2½
	c)	What is galactose tolerance? Explain briefly.	2½
	d)	Write the clinical significance of SGOT and SGPT.	2½
2.	Des	cribe the structure of nephron and formation of urine? OR	10
	a)	Give an account of normal and abnormal constituents of urine.	$2^{1}/_{2}$
	b)	Discuss creatinine clearance test.	21/2
	c)	What is acidosis and alkalosis?	2½
	d)	Write a note on glomerular nephritis.	2½
3.	Disc	cuss in detail the structure of IgG immunoglobulin. OR	10
	a)	Discuss briefly the structure and functions of thymus.	2½
	b)	What is the role of macrophage in the immune system?	2½
	c)	Briefly discuss the development of B-cells.	21/2
	d)	Give an account of structure and properties IgA.	21/2
4.	Des	cribe the preparation and applications of monoclonal antibodies. OR	10
	a)	Discuss the principle of radioimmunoassay technique.	21/2
	b)	Briefly describe the agglutination reaction of antigen and antibody.	21/2
	c)	What is hypersensitivity? Give different types of hypersensitivity read	etions. $2^{1/2}$
	d)	Explain autoimmunity with one example.	2½

5. Attempt any ten of the following.

a)	What is normal range of serum bilirubin?	1
b)	What is normal albumin globulin ratio?	1
c)	Give the types of hepatitis.	1
d)	What is GFR?	1
e)	What is glucosuria?	1
f)	Which hormone is responsible for diabetes insipidus?	1
g)	Name the cell on which CD_4 and CD_8 surface marker are present.	1
h)	Which cell is precursor of all types of blood cells?	1
i)	Name two antigen presenting cells.	1
j)	Give full form of ELISA.	1
k)	What is immune tolerance?	1
1)	What are myeloma cells?	1
