	Sanjay Ghodawat University, Kolhapur EstablishedasStatePrivateUniversityunderGovt.ofMaharashtra.ActNoXL,2017	2020_20 EXM/P/09/ 00

Year and Program- FY.DPharmacy	School of Pharmaceutical sciences	Department-Pharmacy
CourseCode-DP104T	Course Title- Biochemistry And Clinical Pathology	Part-I
Date: Day:	Examination: Annual pattern	Max Marks: 50 Time: 2hrs

Instruction

1. All questions are compulsory.
2. Draw a neat labeled diagram if necessary.

			Marks	Blooms Level	CO
Q.1		Short answer question. Answer any Six out of Eight (2 x 6)	**12**		
	a.	Define and classify Lipids.	02	1	1
	b.	What are abnormalities of red cells?	02	1	1
	c.	What is essential Amino Acid?	02	1	1
	d.	Define a. Marker enzyme b. Holo enzymes	02	1	1
	e.	What do you mean by S-GOT in enzyme? What is its significance?	02	2	3
	f.	Define- a. Biochemistry b. Biomolecules	02	1	1
	g.	Give physiological role of sodium in body.	02	1	1
	h.	Define- a. Acetyl value b. Saponification value	02	1	1
Q.2		Explain with suitable diagram, flow chart and Reaction. Answer any Three out of Five (3x3)	**09**		
	a.	Give structure of the following- a. α-D- Glucose b. α-D- Mannose c. β- D Fructose	03	2	2
	b.	Give symptoms due to deficiency of ascorbic acid.	03	1	1
	c.	What is co-enzyme? Name co enzyme of following vitamins- a. Thiamin b. Pyridoxin	03	1	1
	d.	Give pharmaceutical and therapeutical use of enzyme.	03	1	1
	e.	Explain Rhodopsin cycle for vision.	03	2	2
Q3		Illustrate following with suitable example. Answer any Three out of Five (3x3)	**09**		
	a.	Explain significance of abnormal constitutents of urine.(any 6)	03	2	2
	b.	Explain cause, symptoms and treatment of dehydration.	03	2	2

	c.	Give structure and two color reaction of cholesterol.	03	1	1
	d.	Explain Glycogenesis.	03	2	2
	e.	Explain reactions of beta oxidation of fatty acid.	03	2	2
Q.4		Write a short note on following Answer any Two out of Three (3x2)	**06**		
	a.	Briefly describe denaturation of proteins.	03	2	2
	b.	Give biological functions of calcium	03	1	1
	c.	Write Barford's test and give its significance and principle	03	1	1
Q.5		Discuss the following Answer any Two out of Three (3x2)	**06**		
	a.	What are lymphocytes? Explain role of lymphocytes in health and diseases	03	2	3
	b.	Distinguish between Pernicious anemia and Sickel-cell anemia	03	4	3
	c.	Illustrate any one protein deficiency disease.	03	3	2
Q6.		Long answer questions Answer any Two out of Four (4x2)	**08**		
	a.	Explain the role of antioxidant in preservation of oil	04	2	2
	b.	Explain reactions of Krebs cycle.	04	2	2
	c.	Explain Urea cycle in detail.	04	2	2
	d.	Illustrate the composition of blood	04	3	2