Reg. No.:		
Second Year B.Sc Optometry Degree Supplementary Examinations September 2019		
Nutrition, Biochemistry & Pharmacology		
(2014 scheme)		
Time: 3 hrs	Max marks: 80	
 Answer all questions Draw diagrams wherever necessary Write Section A and Section B in separate answer books. Do not mix up questions from Section A and Section B 		
Q.P. Code: 211013	Marks: 40	
Section A: Nutrition & Biochemistry		
Essay 1. What is the normal blood level of urea. Discuss the steps in urea cycle.	(10) (2+8)	
Short notes	(3x5=15)	
2. Significance of HMP shunt pathway		
3. Fatty acid synthase complex		
4. Enzyme inhibition		
Answer briefly	(5x2=10)	
5. Hormones regulating blood sugar level		
6. Intraocular gel		
7. Two functions of prostaglandin		
8. Balanced diet		
9. Absorption of iron		
Fill in the blanks	(5x1=5)	
10. Beri beri is due to deficiency of vitamin		
11 is a hypoglycemic hormone		
12. Active form of methionine is		
13. Calcitriol blood calcium level		
14. Normal serum total cholesterol level is		

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Section B: Pharmacology

Essay	(10)	
 Describe the factors influencing penetration of ocular drugs. Enumerate th delivery system for ophthalmic use. 	e different drug	
Short notes	(3x5=15)	
2. Mydriatics and their uses		
3. Antiglaucoma drugs		
4. Mast cell stabilizers		
Answer briefly	(5x2=10)	
5. Serotonin		
6. Contraindications of atropine in eye		
7. Antifungal agents and their indications in eye		
8. Fluoxetine and its uses		
9. Anticoagulants		
Fill in the blanks	(5x1=5)	
10.Name one astringent		
11.Name a zinc preparation used in eye		
12. Name a drug which cause optic neuritis as a side effect		
13. Name the drug of choice in anaphylactic shock		
14.Name one hemostatic		

Marks: 40