Reg. No.:		
First Year B.Sc Optometry Degree Examinations December 2017		
Paper II – Physiology		
	(2016 Scheme)	
Time: 3 hrs	•	Max marks: 80
		Max IIIarks: ou
	Answer all questions	
•	Draw diagrams wherever necessary	c. Do not mix
<ul> <li>Write section A and section B in separate answer books. Do not mix up questions from section A and section B.</li> </ul>		
	ар <del>4</del>	
Q P Code: 123013	Section A – General Physiology	Marks: 40
F0001/1		(40)
Essay:	ood pressure. Give the normal values. Explain the nervo	(10)
hormonal regulation of blood pressure.  Short notes:		(2+2+3+3)
·		(3x5=15)
2. Define erythropoiesis. Explain the factors influencing erythropoiesis.		
Explain oxygen hemoglobin dissociation curve and factors affecting it.		
4. Functions of basal ganglia		
Answer briefly: (5x2=10)		
5. What is cretinism. Mention two clinical features.		
Define glomerular filtration rate. Give its normal value.		
7. Draw a reflex arc	and label.	
8. List the enzymes of pancreatic juice.		
9. Draw and label taste pathway		
One word answer: (5x1=5)		
10. Normal value of fasting blood glucose level		
11. Normal vital capacity in adult male		
12.Normal cardiac out put		
13. Hormone which lowers the serum calcium level		
14. Normal leukocyte	count	
Q P Code: 124013	Section B – Ocular Physiology	Marks: 40
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Essay:  1 Define accommoda	ation reflex. Explain the changes taking place during acc	(10)
1. Define accommodation reflex. Explain the changes taking place during accommodation reflex and its neural pathway. (2+3+5)		
Short notes:	ii patriway.	(3x5=15)
2. Refractive errors of the eye and their corrections.		
3. Formation, circulation and functions of aqueous humor.		
	cular muscles in the movement of eye.	
Answer briefly: (5x2=		(5x2=10)
5. Define visual acuity and explain the principle of measurement.		
6. List the functions of lacrimal gland.		
7. Compare rods and cones.		
8. Functions of cornea.		
9. What is protonomaly and protonopia		
One word answer: (5x1=5)		
10. The association visual area number is(Specify unit)		
12. Normal intraocular pressure is(specify unit)		
13. One diagnostic test for color blindness is		
14. Field of vision is measured using		
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