

AZRA NAHEED MEDICAL COLLEGE

DEPARTMENT OF BIOCHEMISTRY

END TERM EXAM- 2020 SECOND YEAR MBBS – SEQs

Time Allowed:2½ Hours

Q No. a.	What are mutations? Explain different types of mutations along with their cause and	(5)
b.	their effect on proteins. Which mutation causes sickle cell disease? How?	(5)
Q No	. 2	
а.	Discuss the process of Translation in Prokaryotes & Eukaryotes specifying the difference in both.	(5)
b.	Write a note of post transcriptional modifications.	(5)
Q No	• 3	
a.	What are the causes of Addison's disease? What is Addisonian crisis?	(5)
b.	What is Cushing's syndrome describe its salient features? What is dexamethasone test?	(5)
Q No	• 4	
a.	What are the non-metabolic effects of Cortisol?	(5)
b.	Describe Renin- Angiotensin-Aldosterone system.	(5)
Q No	• 5	
a.	What is the composition of Nascent VLDL and Mature VLDL? How VLDL is metabolized?	(5)
b.	A 43-year-old gentleman with a long history of type 2 diabetes (> 6 years), dyslipidemia and hypertension presented to the emergency department with a 6-day history of weakness, fever, nausea, vomiting. Urine analysis shows Glucose 4+, ketones 3+, nitrite and leucocyte negative. Blood pH of 7.06 What is the likely Diagnosis? What is the cause of this condition?	(5)
Q No	. 6	
a.	Describe the regulation of Cholesterol synthesis. What are the fates of Cholesterol?	(5)
b.	What are the types of fatty acid oxidation? Explain salient features of each type.	(5)
Q No	• 7	
а.	How are purines catabolized. What is severe combined immunodeficiency? What is the cause, symptoms and treatment?	(5)
b.	How are pyrimidines synthesized from salvage pathway?	(5)