

**FACULTY OF SCIENCE**

M.Sc. III - Semester Examination, January 2018

**SUBJECT : BIO CHEMISTRY****PAPER – III : NUTRITION AND CLINICAL BIOCHEMISTRY**

Time : 3 Hours

Max Marks : 80

**Note: Answer all question from Part – A and Part – B.  
Each question Carries 4 marks in Part – A and 12 marks in Part – B**

**PART – A (8 x 4 = 32 Marks)  
(Short Answer Type)**

- 1/ ~~1~~ Hormones in digestion
- 2/ ~~2~~ P E M
- 3/ ~~3~~ Food Adulteration
- 4/ ~~4~~ Prebioties
- 5/ ~~5~~ A cult Hemoglobin
- 6/ ~~6~~ Acid Base balance
- 7/ ~~7~~ T3 and T4 – test
- 8/ ~~8~~ Pregnancy test

**PART – B (4 x 12 = 48 Marks)  
(Essay Answer Type)**

- 9 a) Write about Clinical testing and biochemical testing methods for nutritional assessment  
(OR)  
b) ~~Write about different types of diabetes and regulation of blood glucose concentration~~
- 10 a) ~~Discuss about the nutrients contents of cereals and pulses and discuss about the importance of nuts and fibre.~~  
(OR)  
b) Explain the role of neutraceuticals and their disease treatment taking an example of Fenugreek and alpha - alpha
- 11 a) How do you asses quality control in clinical biochemistry labs? Explain.  
(OR)  
b) ~~Give an account of electrolyte balance in the body~~
- 12 a) ~~Write about liver function tests in relation to disease diagnosis~~  
(OR)  
b) Write a brief account on the following  
(i) SGPT and Alkaline phosphatase (ii) Enzymes as tumor marks

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