Undergraduate 4th Semester (Honours) Examination, 2020-21

Subject: NUTRITION

Course ID: 42311 Course Code: SH/NU									
Course Title: Nutritional Biochemistry II									
Full Marks: 40		Time: 2 hrs.							
The fig	gures in the margin indicate full marks.								
Candidates are required to give their answers in their own words									
as far as practicable.									
Answer all the questions									
UNIT I									
1. Answer any five of the	following questions:	2x5 = 10							
a) What is polyploid	ly?								
b) Write the role of 1	magnesium in bone formation.								
c) Write the function	ns of tRNA.								
d) What is genetic co	ode?								
e) Mention the bioch	nemical role of calcium in blood coagulation.								
f) What is snRNA?									
g) Draw the structure	e of adenine and thymine.	(1+1)							
h) What are DNA po	olymerases?								
	UNIT II								
2. Answer any four of the f	following questions:	5x4 = 20							
a) Give a brief accou	ant on the biochemical role of iron.	5							
b) Briefly explain the	e transcription process in eukaryotes.	5							
c) State the biochem	ical role of vitamin in collagen formation.	5							

d) Name the different types of DNA. Describe the structure of B-form DNA. 1+4

e)	Mention	the	structural	differences	between	DNA	and	RNA.	What	is	Wobble
	hypothes	is?									3+2

f) Write the biochemical role of vitamin B_{12} .

5

UNIT III

3. Answer any one of the following questions:

10x1 = 10

- a) What is translation? How is amino acid activated during translation? Describe the three steps of translation in eukaryotes.
- **b**) Name the coenzyme form of thiamine. How is it synthesized from thiamine? Write the biochemical role of this coenzyme.