## 2018

## M.Sc. 1st Seme. Examination

## CLINICAL NUTRITION & DIETETICS

PAPER-CND-101

Full Marks: 40

Time: 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

## 1. Answer any four questions:

4×2

- (a) Write the full forms of STAT & JAK.
- (b) What do you mean by mobile model hormone receptor?
- (c) Write any one pro-apoptotic and any one anti-apoptotic marker.
- (d) What do you mean by embryo and fetus?

(Turn Over)

(e) What is bisexual embryo?

	<b>(f)</b>	What are P-53 gene and src gene?			
	(g)	What is phosphagen system?			
	(h)	Wh	aat do you mean by immuno-modulators	•	
			e e		
2.	An	swei	any four questions :	4×4	
	(a)	(i)	State the features of fixed model hormo signal transduction process.	ne receptor	
		(ii)	What is TATA box?	3+1	
	(b)	(i)	Write the role of first class protein and somatic growth during puberty.	calcium on	
		(ii)	What is growth sprout?	3+1	
	(c)	(i)	Write the role of hormones on reproduc during puberty.	tive growth	
ж		(ii)	What is atherosclerosis?	3+1	
	(d)	(i)	State the role of protein on immuno-mo	dulation.	
		(ii)	What do you mean by innate immunity	? 3+1	
C/1	8/M	Sc/I	1st Sem/CND-101	(Continued)	

(e) (i) What do you mean by protooncogene and oncogene?

		11.0	
	E	(ii)	What are the role of cyclin and CDK on cellcycle?
	1		2+2
	(f)	(i)	State the difference between hyperplasia and hypertrophy.
	t E	(ii)	Define development. 2+2
	(g)	(i)	Write the full form of caspase.
	2	(ii)	What is glycogen loading? 1+3
	(h)	(i)	Write the change in body composition during puberty.
	ľ.	(ii)	What is the difference between endurance & perfor-
	1		mance? 2+2
3.	An	swer	any two questions: 2×8
	(a)	(i)	Describe the development of Zygote upto trilaminar embryo.
	j	(ii)	How does bisexual embryo transform into unisexual

embryo?

- (b) (i) State oncogene and tumor suppreror gene boteraction for cancer.
  - (ii) Write the caspase cascade hypothesis for ocpoptosis.

4+4

- (c) What do you mean by ergogenic aids? Name few anabolic steroids with mentioning its side effects. What is blood doping?

  2+2+4
- (d) Describe the role of antioxidant type of nutrients on sports performance. State the immediate and delayed energy source for a long time based sports event. 3+5