## 2015

## M.Sc. Part-I Examination

## DIETETICS AND COMMUNITY NUTRITION MANAGEMENT

PAPER-I (Unit-1)

Full Marks: 50

Time: 2 Hours

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

Answer Question No. 1 and any four from the rest.

- 1. Answer any five of the following:
- 5×2

- (a) What is vasa vasorum?
- (b) What is CCK-PZ?
- (c) With a suitable example define diuretics.
- (d) Mention two functions of interleukins.
- (e) What are the functions of oxytocin?

- (f) Write the functions of Sertoli cells.
- What is 'Catch-up growth'?
- (h) What do you understand by prenatal development? Trefferomant mortulation timentado de constado
- 2. (a) State the characteristic features of essential hypertension.
  - (b) How does primary aldosteronism cause hypertension?
  - STROFF C' SERVICE (c) Explain neurogenic hypertension.
- 3. (a) Describe the histological organisation of concentric layers of GI tract from outside to inside with a suitable diagram.
  - (b) Define deglutition.
  - (c) Mention the location and functions of Brunner's gland and Peyer's patch. nawer any five of the following
- What do you mean by clonal selection theory?
  - (b) Describe the kinetics of immune response, with a suitable curve.
  - (c) Discuss the different types of receptors present on the surface of the T-lymphocytes. 2+3+5

(e) What are the functions of oxytocin?

- 5. (a) How is starch digested within mouth?
- (b) Discuss the mechanism of absorption amino acids and small peptides in the intestine with suitable diagrams. (c) What is meant by cognitive development?
  - (c) Write briefly on Chylomicrons. 3+5+2
- (a) Briefly describe the Juxtaglomerular apparatus? What are the functions of JG apparatus?
  - (b) Mention the functions of mesangial cells.
  - (c) Describe the process of glomerular filtration.

(3+1)+1+5

- 7. (a) What are adreno-cortical hormones?
  - (b) Describe the functions of glucocorticoids and mineralocorticoids in human body. 2+(6+2)
- (a) Discuss briefly the hormonal regulation of ovulation.
  - (b) Write the functions of interstitial cells of Leydig.
  - Differentiate between spermatogenesis and spermio-5+3+2 genesis.

- 9. (a) What do you mean by motor development?
- (b) Discuss in brief about the development of motor skills oldship in children, stall sait of esbisoss ifems bus
  - (c) What is meant by cognitive development? 2+6+2 Write briefly on Chylodificropia.

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(a) Discuss briefly the hornighal regulation of ornighton