(9)

## M.Sc. Part-I Examination, 2013

proximal convoluted tubules of neptron

## DIETETICS AND COMMUNITY NUTRITION MANAGEMENT

PAPER – I (Unit-1)

Full Marks: 50

(g) Mention the changes of fat met consum during presumal 2: smiT

The figures in the right hand margin indicate marks

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

Illustrate the answers wherever necessary

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

1. Answer any five of the following:

2 x 5 \*

- (a) What do you mean by blood vessel of blood vessels?
  - (b) State the function of  $\alpha$ -amylase.

cardiac output.

(c) Mention the pecularities of the structure of proximal convoluted tubules of nephron.

Total Pages-4

- (d) What are the critical periods of growth?
- (e) What is opsonization?
- (f) What are goitrogenic substances?
- (g) Mention the changes of fat metabolism during pregnancy.
- (h) What do you mean by sodium dependent glucose transporter?
- 2. (a) Describe the histological structure of esophagus.
  - (b) Discuss briefly the regulation of gastric secretion.
- (c) Mention the composition of saliva. 3 + 5 + 2
- 3. (a) What is cardiac index?
  - (b) Discuss the mechanism of regulation of cardiac output. 3 + 7

- 4. (a) What is glomerular filtration? Mention the factors affecting glomerular filtration.
  - (b) How Na<sup>+</sup> and K<sup>+</sup> are reabsorbed in the renal tubules? (2+3)+5
- 5. (a) What do you mean by sex difference in growth?
  - (b) Discuss briefly skeletal and dental maturity in postnatal period. 4 + (4 + 2)
- 6. (a) What do you mean by feedback mechanism in the regulation of hormone secretion?
  - (b) Discuss briefly the e AMP signal transduction process with special reference to non-genomic pathway.
  - (c) What do you mean by mobile model receptor of hormone. 3+5+2
- 7. (a) Mention the structure of testosterone.
  - (b) Discuss the regulation of testosterone secretion.

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- 8. (a) What are cytolytic T-lymphocytes?
- $C^{+}(\delta)^{C}$  Discuss the mechanism of cytolytic T-lymphocyte mediated cytolysis.
  - (c) How cytolytic T-lymphocytes are released?
- 9. (a) State in brief about hormonal regulation of pregnancy maintenance.

(a) What do you mean by monde model

(6) Discuss the regulation of testosterone

(b) Discuss in short about metabolic changes during pregnancy. 5 + 5

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Let (a) Mention the structure of respondence

secretion.