2016

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 bilateral cardiac failure?
- (b) What is orphan receptor?
- (c) What is the role of mitochondria in diabetes?
- (d) Write the role of carboxypeptidase in metabolism.
- (e) Write two functions of secondary lymphoid organ.

- (f) What are glucosidic linkages?
- (g) What are diuretics?
- (h) What is antiperistalsis?
- (i) What is glucose memory test?
- (j) mention the receptors present on the T-cell membrane.
- 2. (a) State the role of liver in Carbohydrate metabolism.
 - (b) Write the mechanical functions of saliva.
 - (c) What do you mean by cholagogue action?
 - (d) What is gastro-pancreatic reflex?

5+3+1+1

- 3. (a) State the functions of blood pressure.
 - (b) Discuss the hormonal regulation of blood pressure in human body.
 - (c) Mention the role of vasomotor center in controlling blood pressure.

2+6+2

- 4. (a) What do you mean by hormone receptor mediated genomic and non-genomic signal transduction pathway?
 - (b) Write in brief about the role of steroid hormone receptor complex on gene expression.
 - (c) State the hormonal regulation in the maintenance of pregnancy.

3+4+3

- 5. (a) Write the role of ADH in hypertonic urine formation.
 - (b) What is renin-angiotensin system?
 - (c) How does kidney play an important role in the maintenance of blood pH?

4+2+4

- 6. (a) What do you mean by reproductive growth?
 - (b) State the hormonal control of milk ejection.
 - (c) 'Norepinephrine is diabetogenic hormone' justify the statement from its mode of action.

2+4+4

- 7. (a) What is complement?
 - (b) How complements are activated in the body?
 - (c) Write the biological activities of complements? 1+6+3
- 8. (a) What is meant by 'Growth'; 'Development' and 'Maturation'?
 - (b) What are cephalocaudal and proximodistal orientations of growth?
 - (c) Write briefly on prenatal development and factors influencing it.

- 9. (a) Briefly write the role of intestinal carbohydrate transporter during absorption.
 - (b) State the mechanism of emulsification by bile during fat digestion.
 - (c) Write the functions of amylopectin.

5+3+2