

**2017**

**M.Sc.**

**4th Semester Examination**

**CLINICAL NUTRITION & DIETETICS**

**PAPER—CND-402**

*Full Marks : 40*

*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 three of the following.*

1. Answer any ten of the following : 1×10

- (a) When duodenostomy is adopted in nutrition care ?
- (b) What do you mean by F-75 and F-100 monomeric solution ?
- (c) What are ketogenic diet ?

*(Turn Over)*

- (d) Write the names of any two biochemical sensors used for nutrition status assessment of critically ill person.
  - (e) What do you mean by food allergy ?
  - (f) Define critical care.
  - (g) What do you mean NSS ?
  - (h) Write the names of any two domains of ICCU.
  - (i) What do you mean by infant artificial formula ?
  - (j) What is colostrum ?
  - (k) Infant teething begins at what age ?
  - (l) At what age the introduction of fresh cow's milk is recommended ?
  - (m) What are refeeding syndrome ?
  - (n) How mothers get benefit from breast feeding ?
  - (o) Write any two composition of breast milk.
2. (a) Why continuous type of parenteral feeding is adopted over intermittent feeding in case of critically ill patient ?

- (b) "In gastro-intestinal problem, formula and easily digestible feed is supplied than polymeric food"- Justify the statement critically.
- (c) Energy needed for a critically ill patient in ICU is 1400Kcal. Out of these 60% energy would be supplied by F-700 monomeric solution and rest F-75 solution in continuous mode to maintain the volume load on kidney. What would be the flow rate of these two solutions?

2+4+4

3. (a) "Dietary ingredients are cellular immunoenhancer"- Justify the statement mentioning the role of any one vitamin and any one mineral.
- (b) What is immunosuppression? When it is needed in health care system? Write the role of diet on immunosuppression in 'Indoor patient'.

4+(1+2+3)

4. (a) Write the cellular changes at molecular level in relation to chronological ageing.
- (b) Describe the role of phytomolecule like 'Thiarubine and Thiaflavin' on the management of chronological ageing induced cell damage.

4+6

5. (a) What are the importance of breast feeding ?
- (b) Write the different advantages of exclusively breast feeding.
- (c) Write the different steps of modification of animal milk for infant feeding.
- (d) What do you mean by complementary feeding ?

3+3+2+2

6. (a) Write the sign and symptoms of teething ?
- (b) Write the different sterilization techniques of bottle in bottle feeding of infant.
- (c) How let down reflex works in milk ejaculation ?

2+4+4

---