

**M. Sc. 4th Semester Examination, 2024**

**CLINICAL NUTRITION & DIETETICS**

*( Pediatric, Geniatric Nutrition & Critical Care )*

PAPER – CND-402

*Full Marks : 50*

*Time : 2 hours*

Answer **all** questions

*The figures in the right hand margin indicate marks*

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

**GROUP—A**

Answer any **four** questions of the following :  $2 \times 4$

1. Which hormones are responsible for galactopoiesis and galactokinesis ?
2. Why complementary feeding starts at six month ?

3. What is Catch-up growth ?
4. Why are soy-based formula recommended for some babies ?
5. Why is sarcopenia noted in aged person ?
6. What is dental caries ?

GROUP-B

Answer any **four** questions of the following :  $4 \times 4$

7. What is artificial formula ? How is animal milk modified for feeding of human infants ?  $1 + 3$
8. Why is breast feeding essential for pre-mature infant ? How are mothers benefited by breast feeding ?  $2 + 2$
9. Define weaning. What are the signs that indicate that the baby is ready for complementary feeding ?  $1 + 3$

10. Discuss the pathophysiology of cystic fibrosis.  
Write the chromosomal location of CFTR gene. 3 + 1
11. Briefly discuss the sterilization of feeding  
bottle through boiling. 4
12. Discuss the free radical induced theory for  
ageing. 4

GROUP – C

Answer any **two** questions of the following :  $8 \times 2$

13. Write briefly about the causes and manage-  
ment of childhood obesity. 4 + 4
14. Discuss elaborately about the benefits of  
breast feeding in children. Write the problems  
during weaning. 5 + 3
15. What are the criteria of feeding bottle ? Why  
cleaning is essential before starilization of  
feeding bottle ? Write the nutritional consid-  
erations of *LBW* children. 3 + 2 + 3

16. What are the changes noted in cardiovascular system due to ageing ? State the reasons for osteolysis due to ageing. What are the management strategies for the management of osteolysis ? 4 + 2 + 2

**[ Internal Assessment — 10 Marks]**

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