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PG (CBCS)  
M.Sc Semester- II Examination, 2023  
NUTRITION & DIETETICS  
PAPER: NUD 201

(NUTRITION THROUGH LIFE CYCLE AND GROWTH DEVELOPMENT)

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.

**Write the answer for each unit in separate sheet**

**UNIT: 13**

**NUTRITION THROUGH LIFE CYCLE**

**GROUP-A**

1. Answer any **TWO** from the following questions: 2×2=4
- What is spina bifida?
  - State the importance of LAM.
  - Write the uses of MNA in elderly.
  - What do you mean by 'Letdown reflex'?

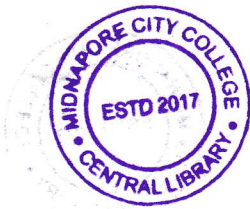
**GROUP-B**

2. Answer any **TWO** from the following questions: 2×4=8
- What is growth faltering? Describe the dietary management for the correction of growth faltering in children. 1+3
  - State the importance of early initiation of breast feeding.  
What is IMS act? 3+1
  - Discuss about the feeding problems faced by school going children. 'Dietary fibre is vital component for geriatric diet' - explain. 2+2
  - What is premenstrual syndrome (PMS)? State the role of diet in management of PSM. 1+3

**GROUP-C**

3. Answer any **ONE** from the following questions: 1×8=8
- What is free radical theory of ageing? Discuss the dietary modification needed to prevent degenerative disease during old age. Why elder persons are at increased risk of harmful drug-nutrient interactions? 2+4+2
  - What is preeclampsia and eclampsia? What measures should be taken to prevent it? Write the immunological benefits of breast feeding. 2+3+3

(P.T.O)



(2)

**UNIT: 14**  
**GROWTH AND DEVELOPMENT**

**GROUP-A**

1. Answer any **TWO** from the following questions: 2×2=4
- a) Write the major events that occur during the embryonic stage of development.
  - b) What are hypertrophic chondrocytes?
  - c) Define Cachexia and Sarcopenia
  - d) State any four features of cognitive development.

**GROUP-B**

2. Answer any **TWO** from the following questions: 2×4=8
- a) Write a short note on sclerotome and myotome. 2+2
  - b) Describe the different steps of muscle cell fusion during Myogenesis. 4
  - c) State development of reproductive system of embryo focusing 'Bidirectional to unidirectional' development.
  - d) State the development of joints from mesoderm. What is 'Somitome'?'3+1

**GROUP-C**

3. Answer any **ONE** from the following questions: 1×8=8
- a) Describe the different phases of endochondral ossification of 'Osteogenesis'.  
State the role of BHLH proteins in 'Myogenesis'.  
What is vernix caseosa? 4+3+1
  - b) State the principles of growth and development. Describe the characteristic features of gestational age during fetal development. 3+5

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