PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc. Winter 2018-19 Examination

Semester: 1	**Date: 11/12/2018**
Subject Code: 11109102	**Time: 10.30 am to 1.00 pm**
Subject Name: Introduction to Public Health Nutrition	**Total Marks: 60**

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)   **(08)**
    (a) What are direct and indirect nutrition intervention. Give examples of nutrition sensitive and nutrition specific indicators.
    (b) Which are the services & beneficiaries ICDS - Anganwadi center ?

Q.1. B) Answer the following questions (Any two)
    (a) Short note/ Schematically label the figures (Each of 02 marks)   **(04)**
      1. Explain intergenerational cycle of malnutrition. (Diagram)
      2. Explain barker's hypothesis
    (b) Short note - Mid-Day Meal program   **(04)**
    (c) Short note – Nutrition Rehabilitation Center (NRC)   **(04)**

Q.2. A) Answer the following questions.
    (a) Fill in the blanks. (Each of 02 marks)   **(04)**
      1. _____ and _____ are service of ICDS for adolescent girls
      2. _____ = fertility rate. (formula)
    (b) Short note - Women's education a key to social development.   **(04)**

Q.2. B) Answer the following questions (Any two)
    (a) Multiple choice questions.   (Each of 01 marks)   **(03)**
      1.   Which disease is stated in Barkers Hypothesis?
      A) Diarrhea
      B) Hypertension
      C) Anemia
      D)   Gout
      2. Complete the full form of RDA
      A) Regular Daily Allowance
      B) Recommended Daily Allowance
      C) Recommended Dietary Allowance
      D) Regular Dietary Allowance
      3. Normal cut off for BMI = ____?
      A)   > 18.5 – 30
      B)   25.0 - 29.9
      C)   > 30
      D)   18.5-24.9
    (b) Short note - Explain anemia prevalence in adults according to NFHS - 4 data (Table form)   **(03)**
    (c) Full form & definition IMNCI program.   **(03)**

Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)   **(08)**
    (a) According to NFHS – 4 data, Explain Stunting in children (Table) and draw and explain the table of percentage of anemia in women and men.
    (b) Explain Causes of childhood morbidity mentioned in IMNCI program (4 points)

Q.3. B) Answer the following questions (Any two)
    (a) Brief note / Schematically label the figures (Each of 02 marks)   **(04)**
      1. Explain the cycle of malnutrition. (Diagram)
      2. Explain gender and poverty.
    (b) Write full forms of CMAM, IMNCI, NHM, VHNDs, SAM and MAM.   **(04)**
    (c) Short note -When was NRC established? And what are the facilities provided at the NRC?   **(04)**

Q.4. A) Answer the following questions.

(a) Short note/ Brief note (Each of 02 marks) **(04)**

1. Explain the terms – Community, morbidity and mortality, still birth, low birth weight.
2. Explain the terms – Household, maternal mortality rate, under five mortality rates. (write formulas where needed)

(b) Short note - Write factor affecting under nutrition throughout lifecycle **(04)**

Q.4. B) Answer the following questions (Any two)

(a) Multiple choice questions. (Each of 01 marks) **(03)**

1. Stunting refers to?
A) Weight for age
B) Both A & C
C) Height for age
D) Underweight

2. What is the rank of Akshaypatra foundation amongst the 100th annual reports in 2014?
A) 24th
B) 58th
C) 39th
D) 2nd

3. Rural child health care center in India?
A) NRC
B) CMTC
C) School
D) Anganwadi Center

(b) Short note - Explain vision of NHM. **(03)**

(c) Define stunting, wasting, underweight, over weight. **(03)**