

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

Semester:1**Subject Code: 11209104****Subject Name: Nutritional Epidemiology****Date: 07/12/2018****Time: 10:30am to 01:00pm****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 (Each of 04 marks) (08)**
- (a) Importance of epidemiology studies and how it is important for improving health.
 - (b) Explain – How mothers education influences her children’s nutrition?
- Q.1. B) Answer the following questions (Any two) (04)**
- (a) Short note/ Brief note (04)
 1. Define – Prevalence, Nutritional Epidemiology, Incidence, morbidity
 2. Define - Underweight and Severe underweight in children with its cut offs.
 - (b) Short note - Measures of micronutrients-food and nutrient intake. (04)
 - (c) What is prevalence of Anemia in children according to NFHS-4 data? (tabular form) (04)
- Q.2. A) Answer the following questions. (04)**
- (a) Fill in the blanks. (Each of 02 marks) (04)
 1. _____ is a cause of Anemia
 2. Xerophthalmia, night blindness is caused by _____ deficiency.
 - (b) Explain the causes of iodine deficiency disorder along with its signs and symptoms (04)
- Q.2. B) Answer the following questions (Any two) (03)**
- (a) Multiple choice questions. (Each of 01 marks) (03)
 1. Incidence refers to ____ cases of disease during a specified period of time.
 - a) Old
 - b) New
 - c) Long term
 - d) Short term
 2. Prevalence refers to number of _____ cases of disease at a given point of ____
 - a) Past, time
 - b) Existing, Time
 - c) Old, period
 - d) Future, period
 3. IDA stands for ?
 - a) Iron deficiency anemia
 - b) Iodine deficiency anemia
 - c) Iodine deficiency Assessment
 - d) A & B both
 - (b) Short note - Explain the causes of vitamin A deficiency with signs and symptoms (03)
 - b) Short note - MUAC- definition and its cut off’s. (03)
- Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
- (a) Food and nutrition security(FNS)
 - (b) Compare NFHS 3 and NFHS – 4 data relating to prevalence of undernutrition in children (0-59 months).
- Q.3. B) Answer the following questions (Any two) (04)**
- (a) Brief note (Each of 02 marks) (04)
 1. Define Death rate and Birth rate.
 2. Explain briefly how and why agriculture is important for promoting nutrition

b) Short note- Nutritional and health surveys in epidemiological studies (04)

(c) Give formulas - MMR, IMR, NMR , PMR,U5MR (04)

Q.4. A) Answer the following questions.

(a) Fill in the blanks. (Each of 02 marks) (04)

1. IDD is caused by _____ deficiency.
2. Anemia is more prevalent in which _____ and _____ age group.

(b) Difference between incidence and prevalence. (04)

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

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

1. Full form of ORS
 - a) Oral Resistant Solution
 - b) Oral Rehydration Solution
 - c) Optimal Rehydration Solution
 - d) Oral Rehydration Sachet
2. Scurvy is a result from severe _____ deficiency
 - a) Vitamin B
 - b) Vitamin C
 - c) PEM
 - d) Vitamin A
3. Rate of occurrence of new cases is there in _____.
 - a) Prevalence
 - b) Incidence
 - c) Both A& C
 - d) None

(b) Short note - Compare NFHS 3 and NFHS – 4 data relating to anemia in children (03)

(c) Compare NFHS 3 and NFHS-4 prevalence of nutritional status of mothers / women (15-49 years) (03)