

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

Semester: 1
Subject Code: 11209103
Subject Name: Advance Human Nutrition

Date: 05/12/2018
Time: 10:30am to 1:00pm
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 (4x2) (Each of 04 marks) (08)**
 (a).Functions of omega 3 and omega 6
 (b) Factors affecting physical activity
- Q.1. B) Answer the following questions (Any two) (04)**
 (a) Brief note (2x2) (Each of 02 marks)
 1.Units of energy
 2.Adjusted weight
 (b) Short note: Invisible and visible fat (04)
 (c) Short note: Complex carbohydrate (04)
- Q.2. A) Answer the following questions. (04)**
 (a) Brief note (2x2) (Each of 02 marks)
 1. Define Health
 2. Define Nanotechnology
 (b) Short note:Role of leptin (04)
- Q.2. B) Answer the following questions (Any two) (03)**
 (a) Multiple choice questions. (Each of 01 marks)
 1.what is the use of Bomb calorimeter?
 a) Energy expenditure during work
 b) Energy expenditure during BMR/REE or at light activity
 c) Determination of BMR
 d) Energy value of food
 2.which Oligosaccharide is made up of Fructose + Galactose + Glucose?
 a) Raffinose
 b) Stachyose
 c) Verbascose
 d) None of the above
 3.Increased in water –holding capacity will cure
 a) Irritable Bowel
 b) Piles
 c) Constipation
 d) Diverticulosis
 (b) Short note: Physiological fuel value (03)
 (c) Short note: Two Functions of carbohydrates (03)
- Q.3. A) Essay type (4x2) (Each of 04 marks) (08)**
 (a)Nutritional guidelines, requirements and recommendation
 (b)Methods for assessing body composition(both classical and recent) and their applications
- Q.3. B) Answer the following questions (Any two) (04)**
 (a) Do as directed (2x2) (Each of 02 marks)
 1. What is glycemic index
 2.What is protein sparing action
 (b) Short note: Human nutrition requirement (04)
 (c) Short note: Harris- benedict equation (04)

Q.4. A) Answer the following questions.

- (a) Brief note (2x2). (Each of 02 marks) **(04)**
1.Explain Rapidly Digestible Starch (RDS)
2.Justify.Bioavailability affects RDA?
(b) Short note:Define physiological fuel value **(04)**

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

- (a) Multiple choice questions. (Each of 01 marks) **(03)**
1. Is a cyclic alcohol with six hydroxyl radicals and is allied to glucose
a) Trehalose
b) Maltose
c) Sugar Alcohol
d) Inositol
2.Sorbitol, Xylitol, lactitol and isomalt are?
a) Trehalose
b) Maltose
c)Sugar Alcohol
d) Inositol
3.Which fibre is defined as the residue remaining afetre the treatment withhot sulphuric acid, alkali and alcohols.
a) Crude fibre
b) Dietary fibre
c) Soluble fibre
d) Insoluble fibre
(b) Short note: BMR and factors affecting BMR **(03)**
(c) Short note: Any two Specific functions of amino acids **(03)**