

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc. / IMSc , Summer 2018-19 Examination

Semester: 2/8**Subject Code: 11203151****Subject Name: Plant Biochemistry & Human Nutrition****Date: 05/04/2019****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 (08)**
Explain light and dark reaction of photosynthesis
- Q.1. B) Answer the following questions (Any two)**
- (a) Short note: C4 plants carbon fixation (04)
 - (b) Differentiate between PSI and PSII (04)
 - (c) What are the factors affecting seed germination? (04)
- Q.2. A) Answer the following questions.**
- (a) Short note: Symbiotic N₂ fixation (04)
 - (b) Short note: Nitrogen cycle (04)
- Q.2. B) Answer the following questions (Any two)**
- (a) Differentiate between C3 and C4 plant (03)
 - (b) Narrate main three functions of carbohydrates (03)
 - (c) Short note: Dietary fibers (03)
- Q.3. A) Essay type (08)**
Digestibility and absorption of protein
- Q.3. B) Answer the following questions (Any two)**
- (a) Explain role of leptin in regulation of body mass (04)
 - (b) Short note on importance of Iron in nutrition (04)
 - (c) Explain physiological role and deficiency disorders of vitamin A (04)
- Q.4. A) Answer the following questions.**
- (a) Define : Secondary metabolites , Denitrification (04)
 - (b) Short note: Lipid digestion (04)
- Q.4. B) Answer the following questions (Any two)**
- (a) Write a note on food allergen (03)
 - (b) Short note: Vitamin C (03)
 - (c) Write any 3 applications of ethylene (03)