

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
M.Sc. Summer 2017-18 Examination

Semester: 2
Subject Code: 11203151
Subject Name: Plant Biochemistry & Human Nutrition

Date: 11/05/2018
Time: 10:30 am to 1:00 pm
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) Brief note (4x2) (08)**
a) Explain C3 cycle.
b) Describe allergic reaction of food.
- Q.1. B) Answer the following question (Any two) (04)**
a) Short note (2x2) (04)
1. What is BMR?
2. Define non essential amino acids and give its examples.
b) Write a note on seed germination. (04)
c) Explain lipid absorption. (04)
- Q.2. A) Answer the following question. (04)**
a) Short note (2x2) (04)
1. Photosystem I
2. Photosystem II
b) Write a note vitamin B complex. (04)
- Q.2. B) Answer the following questions (Any two). (03)**
1) Explain role of cytokinin. (03)
2) Write a note on type of seed dormancy. (03)
3) Explain symbiotic nitrogen fixation. (03)
- Q.3. A) Brief note (4x2) (08)**
1) Explain digestion of carbohydrates.
2) Describe chemical composition of plant food.
- Q.3. B) Answer the following questions (Any two). (04)**
a) Short note (2x2) (04)
1. Define secondary metabolites. Give its examples.
2. What is nitrification?
b) Describe the mechanism of quantum capture. (04)
c) Explain the difference between C3 and C4 plant. (04)
- Q.4 A) Answer the following questions. (04)**
(a) Short note (2x2) (04)
1. What is plant growth hormone? Enlist its types.
2. What is photosynthesis?
(b) Describe nitrogen balance study. (04)
- Q.4 B) Answer the following questions (Any two). (03)**
(a) Explain applications of auxin. (03)
(b) Explain nitrogenase enzyme. (03)
(c) Write a note on Vitamin C. (03)