

PARUL UNIVERSITY
COLLEGE OF AGRICULTURE

B.Sc. (Hons.) Agriculture Winter 2018-19 Examination

Semester: 2

Date: 20/12/2018

Subject Code: 20110153

Time: 10:30am to 01:00pm

Subject Name: Fundamentals of Crop Physiology

Total Marks: 50

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 Do as Directed.**A. Fill in the blanks. (Each of 0.5 marks)****(05)**

1. NADPH₂ is generated through_____.
2. A pigment which absorbs red and far_____.
3. The core metal of chlorophyll is_____.
4. Which one among the following chemicals is used for causing defoliation of forest trees_____.
5. A plant hormone used for inducing morphogenesis in plant tissue culture is_____.
6. When water enters in roots due to diffusion, is termed as_____.
7. What will be the number of Calvin cycles to generate one molecule of hexose_____.
8. The law of limiting factors' was proposed by_____.
9. The site of dark reaction of photosynthesis is_____.
10. When a cell is fully turgid, which of the following will be zero_____.

B. Multiple choice type questions. (Each of 0.5 mark)**(10)**

1. The _____ control the opening and closing of the stomata.

a) Guard cells	c) Mitochondria cells
b) Chloroplast cells	d) None of the above
2. PS I system absorb _____ wavelength.

a) 680 nm	c) 650 nm
b) 700 nm	d) 720 nm
3. _____ suggested the adoption criteria for essentiality of a mineral in the nutrient of a plant.

a) Robert Hook	c) Arnon and Stout
b) Kelvin	d) None of the above
4. Discolouration of leaves takes place, green colour changes to purple colour due to presence of _____ pigments.

a) Anthocyanine	c) Xanthophyll
b) Chlorophyll	d) None of the above
5. The nutrient elements which are required comparatively in small quantities are called as _____ nutrients.

a) Macro	c) Micro
b) Solid	d) Liquid
6. By which action a seed coat becomes permeable, to water_____.

a) Scarification	c) Enforced action
b) Stratification	d) None
7. The movement of ions against the concentration gradient will be_____.

a) Active	c) None
b) Passive	d) Both
8. Which hormone breaks dormancy of potato tuber_____.

a) Thiourea	c) Abscissic acid
b) Auxins	d) None
9. Hormone responsible for senescence is_____.

a) Thiourea	c) Abscissic acid
b) Auxins	d) None
10. Which of the following prevents the fall of fruits_____.

a) NAA	c) ethylene
b) GA	d) Cytokinines
11. The _____ in green plants constitutes the photosynthetic apparatus.

a) Chloroplast	c) Cytoplasm
b) Mitochondria	d) Endoplasmic reticulum

