

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(Sixth Semester)

Branch – BIOCHEMISTRY

PLANT BIOCHEMISTRY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont...

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks ($5 \times 7 = 35$)

- 11 a Explain the structure and function of Chloroplast with a neat diagram.
OR
b State the different factors affecting Photosynthesis.
- 12 a Describe CAM Pathway.
OR
b Bring out the difference between Respiration and Photorespiration.
- 13 a Narrate Non-Symbiotic Nitrogen fixation briefly.
OR
b Summarise the mechanism of Nitrogenase in nitrogen fixation.
- 14 a Explain the physiological functions of Auxin.
OR
b Describe the synthesis and physiological functions of Ethylene.
- 15 a Outline the physiology of seed germination.
OR
b State how Photomorphogenesis is important in plants

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry EQUAL Marks ($3 \times 10 = 30$)

- 16 Elucidate the mechanism of ATP formation.
- 17 Discuss the synthesis and degradation of Starch.
- 18 Outline Sulphate activation and reduction.
- 19 Enumerate the synthesis and physiological function of Gibberellin.
- 20 Highlight the role of Senescence in life cycle of plants.

Z-Z-Z

END