

# GURUDAS COLLEGE

**B. Sc. SEMESTER- IV (General) Examination( Under CBCS ) - 2021**

**Online mode**

**Subject: BOTG**

**Course: BOT-G-CC-4-4-TH ( IA )**

**Course Name: PLANT PHYSIOLOGY AND METABOLISM**

**Date of Examination: 19.07.21, 1:30PM**

All questions carry equal marks

**Time:30 minutes**

**FM:10**

**Answer the following (Any 5)**

**2X5=10**

1. Which of the following is free living bacteria ?
  - a) *Frankia*
  - b) *Bradyrhizobium japonicum*
  - c) *Azotobacter*
  - d) All of the above
  
2. Which of the following is synthetic auxin ?
  - a) Napthoxy acetic acid
  - b) Indole acetic acid
  - c) Indole butaric acid
  - d) All of the above
  
3. Ripening of fruit is physiological role of
  - a) Auxin
  - b) Ethylene
  - c) Gibberellins
  - d) All of the above
  
4. Which of the following is short day plant ?
  - a) Cucumber
  - b) Spinach

- c) Maize
  - d) Potato
5. The pigment is present in root nodule of
- a) Chlorophyll
  - b) Carotenoids
  - c) Leghaemoglobin
  - d) All of the above
6. Stomata open at night in
- a) C3 plants
  - b) C4 plants
  - c) CAM plants
  - d) None of the above
7. In mitochondrion, F1 component of ATP synthase
- a) projects in intermembrane space
  - b) projects into matrix
  - c) lie embedded in inner membrane
  - d) lie embedded in outer membrane
8. Which of the following is acceptor of CO<sub>2</sub> in dark reaction of photosynthesis ?
- a) 3PGA
  - b) Ru-5-P
  - c) RuBP
  - d) Xu-5-P

### **Instructions for submission of answer scripts**

1. Write the front page/top sheet as per instruction.
2. Scan the pages in sequence and make a single PDF file.
3. Rename file as per instruction.
4. Email the PDF file within the stipulated time to the following

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