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Roll No.....

BOT-504

Biochemistry and Plant Physiology

M.Sc. BOTANY (MSCBOT- 12/13/16/17)

First Year, Examination, 2019

Time: 03 Hours

Max. Marks: 80

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**Note:** This paper is of Eighty (80) marks, divided into two (02) sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

### SECTION A

(Long-Answer-Type Questions)

**Note:** Section 'A' contains five (05) long-answer-type questions of fifteen (15) marks each. Learners are required to answer any three (03) questions.  
(3×15=45)

1. What are proteins? What makes proteins specific in function? Discuss.
2. Write a brief account of RNA and elucidate the differences between RNA and DNA.
3. What do you understand by the "light" and "dark" reactions in photosynthesis?

4. What is Vernalisation? Give some practical uses of this phenomenon?
5. What are macro and micronutrients? Describe the effect of the deficiency of five macro and micronutrients each on plants

### Section B

#### (Short Answer Type Questions)

Note: Section 'B' contains eight (08) short-answer type questions of seven (07) marks each. Learners are required to answer any five (05) question only.

(5×7=35)

1. Biosynthesis of fats
2. Fluid Mosaic model
3. CAM plants
4. DNA polymerase
5. Drought Injury
6. Translation
7. Glycolysis
8. Seed dormancy

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