



G-035020

Seat No. _____

B. Sc. (Microbiology) (Sem. V) Examination

April / May - 2019

BSCC505D - Agriculture Microbiology

Time : 3 Hours]

[Total Marks : 70

- 1** Write any two of the following : **14**
- (1) Nitrogen fixing microbes' role in soil fertility
 - (2) Phosphate solubilizing microbes as biofertilizers
 - (3) Significance of symbiotic relation of fungi and plant roots
 - (4) Plant pathogenic fungi
- 2** Answer any two of the following : **14**
- (1) Virus as plant pathogen
 - (2) Transmission of pathogens into plants
 - (3) Symptoms of plant bacterial diseases
 - (4) Control of plant diseases
- 3** Write on any two of the following : **14**
- (1) Describe the modes of penetration of plant pathogens
 - (2) Describe the role of enzymes in development of plant diseases symptoms.
 - (3) Write in brief the physical defense mechanism against disease in plants
 - (4) Write in brief about fungal pesticides
- 4** Write on any two of the following : **14**
- (1) Green house gases
 - (2) Biofuels
 - (3) Characters improved in GM plant
 - (4) Transgenic animals.

5 Write in one or two sentences on the following : 14

- (1) Importance of *Pseudomonas denitrificans*
 - (2) Importance of ammonification
 - (3) What is phytostimulation
 - (4) What are the causes of wilt ?
 - (5) Define Prions
 - (6) Give use of T plasmid
 - (7) What is Biotech feed ?
 - (8) What is Silage ?
 - (9) What is the benefit of Crop rotation ?
 - (10) Give two advantages of microbial pesticides.
 - (11) Give two examples of pesticides to which plants developed resistance.
 - (12) Give two examples of growth hormone produced by plants.
 - (13) Give two examples of plant diseases caused by prions.
 - (14) Give two factors that affect development of plant diseases.
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