

VPG(1)- Bot (2)

(2)

2017-19

Full Marks : 70

Time : 3 hours

Answer any five questions including Q.No.1 which is compulsory.

The figures in the right-hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable.

- 1. Write short notes on any seven : 2 × 7**
- (a) Transformation**
 - (b) Antibiotics from bacteria**
 - (c) Viroids**
 - (d) Viral genomes**
 - (e) Mycoplasma**
 - (f) Mycotoxin**
 - (g) Biopesticides**
 - (h) Algal blooms**

- (i) Biofertilizers**
 - (j) Desmids.**
- 2. Describe conjugation or transduction method of reproduction in bacteria. 14**
 - 3. Explain in brief the lytic and lysogenic cycles of virus. 14**
 - 4. Describe the structure, life cycle and phylogeny of Chytridiales or Erysiphales. 14**
 - 5. Write a brief account of mycorrhizae and its role in agriculture and forestry. 14**
 - 6. Describe the different life cycle patterns observed in algae. 14**
 - 7. Describe the structure and life cycle of Volvocales or Nematocales. 14**
 - 8. Describe the symptoms, etiology and control measures of Citrus canker. 14**
 - 9. Describe the symptoms, etiology and control measures of Tikka disease of ground nut. 14**

(Turn Over)