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**BOS 407**

**First Semester M.Sc. Degree Examination, December 2018**

**(CBCS)**

**BOTANY**

**Plant Pathology**

**(Soft Core)**

Time : 3 Hours

Max. Marks : 70

I. Answer **any three** of the following (**each** answer **not** exceeding 5 pages) :

**(3×10=30)**

- 1) Write a note on impact of plant diseases on major Indian cereal crop production.
- 2) Write a detailed account on life cycle of root knot of nematodes.
- 3) Explain symptom, etiology, life cycle and transmission of BBTV.
- 4) What is epidemiology ? Write an essay on disease forecasting.
- 5) Explain effect of infection on physiological functions of the host.

II. Write notes on **any six** of the following (**each** answer not exceeding 3 pages) :

**(6×5=30)**

- 6) Rice blast disease.
- 7) Citrus canker.
- 8) Disease triangle.
- 9) Non-parasitic diseases.
- 10) Pre-penetration.
- 11) Non-specific toxins.
- 12) Biotrophic and necrotrophic pathogens.
- 13) Koch postulate.

P.T.O.



III. Write short notes on **any five** of the following (**each** answer **not** exceeding **one** page) :

**(5×2=10)**

- 14) Edwin John Butler
  - 15) Lakshmi disease
  - 16) Disease cycle
  - 17) Indirect transmission
  - 18) Mycoplasma
  - 19) *Trichoderma harzianum*
  - 20) Bacterial soft rot.
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