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BSC / Part-II (M)/ AS – III

**2019**

**Part – II**

**AGRO-SERVICE**

**(Major)**

**Paper – III**

*Full Marks – 100*

*Time : 4 Hours*

*The Questions are of equal value for any group / half.*

*The figures in the right-hand margin indicate marks.*

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

*Illustrate the answers wherever necessary.*

**UNIT – I**

**(Marks – 50)**

**(Seed Production Technology)**

Answer any **five** questions : 10 × 5

1. What do you mean by seed ? Write in details the importance of seeds in Agricultural Production.

2+8

**P.T.O.**

2. Describe seed morphology with diagram and development of seed. Enumerate the classification of seed. 5+5
3. Critically discuss in details the principles of seed production. 10
4. Critically discuss production techniques of paddy seed in our state. 10
5. Critically discuss the procedures of maintenance of seed purity at the time of seed production.
6. Discuss in detail post-harvest practices – threshing, cleaning, drying and storage of wheat crop.  $2\frac{1}{2} \times 4$
7. What do you mean by hybrid seed ? Write down the concept of hybrid seed production. 4+6
8. Write short notes on :  $4 \times 2.5$
- (i) Budding
  - (ii) Grafting
  - (iii) Layering
  - (iv) Tissue culture

## UNIT – II

(Marks – 50)

### (Diagnosis of crop health problems)

Answer any **five** questions : 10×5

1. What do you mean by pest, insect and non-insect ?  
Write in brief causes of damage of nematodes in chilli & control measures 6+4
2. Discuss in details rice hispa, rice stemborer, bacterial blight and brown spot of rice (symptoms and control measures). 5+5
3. Critically discuss the symptoms and control measures of seedling blight and smut diseases of wheat. 5+5
4. Discuss in details symptoms and control measures of jute semi-looper, jute hairy caterpillar, stem rote and wilt of jute diseases. 5+5
5. Critically discuss in details the symptoms and control measures of aphid, hairy cater piller, stem fly, blight and rust in oil seeds. 10

6. Write down the symptoms and control measures of cabbage by head borer and nutrient deficiency of cauliflower. 5 + 5
7. Discuss in details symptoms and control measures of weevil, wilt, sigatoka and bunchy top of banana. 10
8. Write down the symptoms and control measures of powdery mildew in mango, aphid in dahlia, mango mal-formation, wilt in guava and citrus canker. 10
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