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BF-59-2016

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION OCTOBER/NOVEMBER, 2016

BOTANY

Paper XIII (Opt.)

(Plant Pathology–I)

Or

(Systematic Botany—I)

Or

(Herbal Technology-I)

(Tuesday, 18-10-2016)

Time: 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

(Plant Pathology-I)

- N.B. := (i)Attempt *All* questions.
 - (ii)All questions carry equal marks.
 - (iii)Draw neat and well labelled diagrams wherever necessary.
- 1. Write in detail classification of plant diseases on the basis of symptoms. 8 Or

Write in brief:

(a)Koch's postulates. 4

- (b) Isolation of plant pathogens from infected plant parts.
- 4
- 2. Describe in detail entry of plant pathogens through root hair and buds. 8

Or

Write in short:

(a)Dispersal of plant pathogens by air. 4

(b) Effect of wind on disease development. 4

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WΓ		(2) BF—59—20	16
3.		be in detail Symptoms, Causal-organism, Disease cycle and Contures of Green ear of Bajra.	rol 8
		Or	
	Descri	be in brief:	
	(a)	Yellow vein mosaic of Bhendi.	4
	(<i>b</i>)	Symptoms of Angular leaf spot of cotton.	4
4.		be in detail symptoms, causal organism, disease cycle and control measurete rust of Mustard.	res 8
		Or	
	Write	in brief:	
	(a)	Bean mosaic.	4
	(<i>b</i>)	Control measures of citrus canker.	4
5.	Write	short notes on any four of the following:	8
	(a)	Pure culture technique	
	(<i>b</i>)	Entry of plant pathogens through wounds	
	(c)	Symptoms of Grain Smut of Jowar	
	(d)	Erysiphae polygoni	
	(e)	Symptoms of whip smut of sugarcane	
	(<i>f</i>)	Control measures of leaf spot of turmeric.	
		OR	
		(Systematic Botany—I)	
N.B.	:— (i) Attempt All questions.	
	(ii) All questions carry equal marks.	
	(iii	Draw neat and well labelled diagrams wherever necessary.	
1.	Descri	be Bentham and Hooker's system of classification of plants.	8

WT (3)BF-59-2016 OrExplain in brief: (*a*) Aims of Taxonomy (*b*) Phylogenetic type of classification. 2. 8 Explain in detail typification and author citation. OrWrite short notes on: (a)Biological species concept (b) Principles of priority. 3. Describe the use of keys in plant identification. 8 OrDescribe in brief: Important botanical gardens in India. (a)(*b*) Importance of Herbarium. Write in detail the general characters of the family Papaveraceae with Floral 4. formula and Floral diagram. 8 OrExplain in brief: (*a*) Floral characters of Cucurbitaceae (*b*) Economic importance of Rutaceae. 5. Write short notes on any four of the following: 8 Merits of Hutchinson's system of classification. (a)(*b*) Define Taxonomy. What is Nomenclature? (c) Species Cover. (*d*) (e) Stamens in Myrtaceae.

(*f*)

Gyanophore.

OR

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(Herbal Technology-I)

N.B. := (i) All questions are compulsory.

- (ii) All questions carry equal marks.
- (iii) Draw neat and well labelled diagrams wherever necessary.
- 1. Give an account of demand and supply of MAP in India.

Or

- (a) Yoga
- (b) Unani system of medicine.
- 2. Write an essay on unorganized drugs.

Or

- (a) Chemical classification of plant drugs.
- (b) Storage of crude drugs.
- 3. Describe distribution, morphology, botanical and chemical constituents of shatavari.

Or

- (a) Behda
- (b) Tulsi.
- 4. Give an account of standardization of Ayurvedic drugs.

Or

- (a) Transgenic plants
- (b) Drug adulteration.
- 5. Write short notes on any four of the following:
 - (a) Ayurvedic system of medicine
 - (b) Storage of drugs
 - (c) Pharmacological classification of drugs
 - (d) Adulsa
 - (e) Morphological evaluation of drugs
 - (f) Biomedicines.