



GIET UNIVERSITY, GUNUPUR – 765022

B. Sc. (AG) (Second Semester) Examinations, October – 2021

PPT-121- Fundamentals of Plant Pathology

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.

PART – A

Q.1. Fill in the blanks with suitable word / figure.

(0.5 x 10 = 5 Marks)

- Mycology is the study of -----
- Irish famine was caused due to -----disease
- is Founder and father of mycology
- Pathology derived from ----- word
- Father of plant pathology is -----
- Ability of a pathogen to cause disease-----
- Club root disease of crucifers is caused by -----
- Vriksha Ayurveda was written by -----
- Area specific disease is known as _____
- Five kingdom classifications was given by -----

Q.2. Define (or) Explain the following in one or two sentences.

(1 x 5 = 5 Marks)

- Damping off disease
- Viral disease symptoms
- Disease
- Hypersensitivity
- Endemic disease

Q3. Match COLUMN-A with COLUMN-B

(0.5 x 10 = 5 Marks)

Column – A		Column – B	
(a)	Diseases	(i)	Deuteromycotina
(b)	Disorder	(ii)	Fire blight of apple
(c)	Fungus	(iii)	Asexual method
(d)	Virus	(iv)	Abiotic
(e)	Coenocytic mycelium	(v)	Ascomycotina
(f)	Binary fission	(vi)	Black rust
(g)	Septate mycelium	(vii)	Beijernick
(h)	Fungi imperfecti	(viii)	Biotic and abiotic
(i)	Virology	(ix)	Zygomycotina
(j)	Bacteria	(x)	Mosaic

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Cleistothecium is also known as closed ascocarp
- b. Vesicle is formed in sporangia of phytophthora.
- c. *Albugo candida* causes white rust disease of mustard
- d. Mushroom belongs to subdivision basidiomycotina
- e. Phytophthora is known as plant destructor
- f. Amanita is not a poisonous mushroom.
- g. In taxonomic position order ends with "mycotina"
- h. Fission or budding is a mode of asexual reproduction in yeast
- i. Zoospore is also called as motile spore
- j. Fission or budding is a mode of asexual reproduction in yeast

PART – B

Attempt ANY FIVE questions. All question carry equal marks.

(6 x 5 = 30 Marks)

5. Importance of plant diseases, scope and objectives of Plant Pathology
6. Write short notes on **any three** of the followings?(Each carries 2 marks)
 - a) Phanerogamic plant parasites
 - b) Characteristics of oomycetes
 - c) Key for identification of powdery mildew genera
 - d) General characteristics of fungi
7. Describe in brief about Reproduction in fungi (both asexual and sexual).
8. Define virus and describe in brief about viral disease symptoms with suitable example.
9. Classification of diseases based on different criteria
10. Write in details about life cycle of pythium with suitable diagram

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