Semester	:	III (New)	Term	:	First	Academic Year	:	2023-24
Course No.	:	PATH 232	Title	:	Principles of Integrated Disease Management			
Credits	:	2 (1+1)						
Day & Date	:	Friday, 15.12.2023	Time	:	9:00 to 11:00 hrs.	Total Marks	:	40

Note : 1. Solve ANY EIGHT questions from SECTION 'A'.

2. All questions from SECTION 'B' are compulsory.

3. All questions carry equal marks.

4. Draw neat diagram wherever necessary.

SECTION 'A'

Q.1 Define IDM. Explain in brief its importance with concept and advantages.

Q.2 Define Plant Disease. Narrate the economic importance of plant diseases.

Q.3 Enlist general principles of plant disease management. Explain in short about the exclusion and plant quarantine.

Q.4 What is Pest Risk Analysis? Describe different stages of Pest Risk Analysis.

Q.5 Write short notes on (Any Two):

a) Components for development of IPM module

b) Plant disease forecasting

c) Tools of IPM

Q.6 Define Plant Quarantine. Describe different types of plant quarantine measures with suitable examples.

Q.7 What is Survey and Surveillance? Mention the objectives of surveillance and describe the different types of survey.

Q.8 Define Diagnosis and describe different steps involved in plant disease diagnosis.

Q.9 Comment on safety guidelines in pesticide uses.

Q.10 Define Disease Incidence. Explain in brief about different methods used for measurement of plant diseases.

SECTION 'B'

Q.11 Do as directed:

1) Give one example of fungal bioagent.

2) Name the disease managed by hot water treatment.

3) Give one example of non-systemic fungicide.

4) Expand the acronym: PGPR.

Q.12 Match the pairs:

'A'		'B'	
1) Irish Famine		a)	1997
2) Destructive Insect and Pest Act (DIPA)		b)	1943
3) Bengal Famine		c)	1914
4) International Plant Protection Convention (IPPC)		d)	1845

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