

ASSIGNMENT BOOKLET

APM-01

Bachelor's Degree Programme

**Application Oriented Course
in
INTEGRATED PEST MANAGEMENT**

(Valid from 1st January 2024 to 31st December, 2024)

**It is compulsory to submit the assignment before filling in the
Examination Form.**



**SCHOOL OF SCIENCES
Indira Gandhi National Open University
Maidan Garhi, New Delhi-110 068**

(2024)

Dear Student,

We hope you are familiar with the system of evaluation to be followed for the Bachelor's Degree Programme. At this stage you may probably like to re-read the section on assignments in the Programme Guide for Elective Courses that we sent you after your enrolment. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would consist of **one tutor-marked assignment** for this course.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully.

- 1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

ENROLMENT NO.:

NAME:

ADDRESS:

.....

.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT NO.:

STUDY CENTRE: DATE:

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only foolscap size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.
- 6) **This assignment will remain valid for one year from January 1, 2024 to December 31, 2024.** However, you are advised to submit it within **12 weeks** of receiving this booklet to accomplish its purpose as a teaching-tool. Answer sheets received after the due date shall not be accepted.
- 7) **It is compulsory to submit the assignment before filling in the examination form.**

Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck.

ASSIGNMENT
(Tutor Marked Assignment)
INTEGRATED PEST MANAGEMENT

Course Code: APM-01
Assignment Code: APM-01/TMA/2024
Maximum Marks: 100

1. Why insects as pests are most successful organisms? Explain (10)
2. Explain any *five* major concepts of Integrated Pest Management (IPM). (10)
3. Name *two* pests of each of the following crops and comment upon their nature of damage: (20)
 - a) Paddy
 - b) Cotton
 - c) Bhindi (Okra)
 - d) Mango
 - e) Sugarcane
4. Why adoption of IPM is poor? Which strategies should be adopted in future to promote it? (10)
5. Write short notes on the following: (10)
 - a) Farmer Field Schools
 - b) Plant Health Clinics
6. Differentiate between the following: (10)
 - a) Monophagous and Polyphagous Pests
 - b) Predator and Parasitoid
 - c) Insect and Nematode
 - d) Botanical and Microbial Pesticides
7. (a) Differentiate between r and K pests. (5)
(b) Describe pest forecasting. (5)
8. (a) How transgenic plants are advantageous as compared to insecticides? (5)
(b) Write a short note on *Bt* cotton. (5)
9. a) Discuss the future strategies in IPM. (5)
b) What are the similarities between IPM and sustainable agriculture? (5)