BZYCT-143

ASSIGNMENT BOOKLET

Bachelor's Degree Programme

(BSCG) INSECT VECTORS AND VECTOR BORNE DISEASES

Valid from 1st January, 2022 to 31st December, 2022



School of Sciences
Indira Gandhi National Open University
Maidan Garhi
New Delhi-110068
(2022)

Dear Student,

Please read the section on assignments in the Programme Guide for Core 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. The assignment is in this booklet, and it consists of three parts, Part A and B. The total marks of all the parts are 100, of which 35% are needed to pass it.

Instructions for Formatting Your Assignments

Before attempting the assignment please read the following instructions carefully:

1)	On top of the first page of your answer sheet, please write the details exactly in the following format:
	ROLL NO.:
	NAME:
	ADDRESS:
	URSE CODE:
	SIGNMENT NO.:
STU	JDY CENTRE: DATE:
	EASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION D 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)	Complete each of Part A and Part B of this assignment separately, and submit them together.
6)	The assignment answer sheets are to be submitted to your Study Centre as per the schedule made by the study centre. Answer sheets received after the due date shall not be accepted.

8) You cannot fill the exam form for this course till you have submitted this assignment.

the year 2023, and submit it as per the instructions given in the Programme Guide.

We strongly suggest that you retain a copy of your answer sheets.

We wish you good luck.

7)

This assignment is valid from 1st January, 2022 to 31st December, 2022. If you have failed in

this assignment or fail to submit it by December, 2022, then you need to get the assignment for

ASSIGNMENT INSECT VECTORS AND VECTOR BORNE DISEASES

Course Code: BZYET-143

Assignment Code: BZYET-143/TMA/2022

Maximum Marks: 100

Note: Attempt all questions. The marks for each question are indicated against it.

			Part-A Maxim	num Marks: 50		
1.		"Insects are diverse group of animals that are well adapted to different anvironments" Justify the statement.				
2.	Writ	e shor	rt notes on following:	(10)		
	i)	Moi	uthpart modifications in insects			
	ii)	Тур	pes of antennae in insects			
	iii)	Тур	pical structure of insect wing			
	iv)	Leg	modification in insects			
3.	a)		ite short note on host parasite interactions and its importance folic health.	or (5)		
	b)	Wha	at are different adaptations adopted by vectors?	(5)		
4.	Write short notes on the following:					
	i)	Prev	vention of control measures of fleas			
	ii)	Тур	shus fever			
	iii)	Tun	ga penetrans			
	iv)	Trai	nsmission of plague			
5.	Write short notes on the following:					
	a)	Med	dical importance of lice.			
	b)	Med	dically important Insect Orders.			
		Part-B Maximum M				
6.	a)	Describe the life cycle of Anopheles mosquito.				
	b)	Explain the epidemiology of malarial parasite.				
7.	i)	Fill in the blanks:				
		a)	Culex-borne diseases can be controlled by killingtheir breeding grounds and using space	in		
		b)	Stagnant water bodies act as, mosquito.	. for		
		c)	Mosquitoes can be controlled genetically bymale technique and replacement.			
		d)	Mosquito nets used against <i>Culex</i> mosquitoes should not hav holes per square inch.	ve .		
	ii)	Wri	te two various methods of <i>Culex</i> control.	(2)		

8.	i)	Give differences between the following:			
		a)	Extrinsic incubation period and intrinsic incubation period		
		b)	Transverse and vertical transmission		
		c)	Urban cycle and sylvatic cycle		
	ii)	Draw labeled diagrams of the following:			
		a)	Life cycle of Aedes mosquito		
		b)	Dengue transmission Cycle		
9.	i)	Fill in the blanks.			
		a)	The life cycle of <i>Phlebotomus argentipes</i> consists of 4 stages namely eggs, larva, and		
		b)	Freshly laid eggs of sandflies are creamy white in colour which gradually turn to		
		c)	Sand flies are natives of climate.		
		d)	Female sand flies feed on a wide variety of hosts.		
		e)	Prevalence of vector is dependent upon the environmental factors such as humidity, temperature and		
	ii)	Write the ecological factors favourable for the transmission of Kala-azar.			
10.	a)	List five control measures that you will take at home to keep the house flies away.			
	b)	Explain the concept of Integrated Vector Management.			