

**UTTAR PRADESH RAJARSHI TANDON OPEN UNIVERSITY
SHANTIPURAM, SECTOR-F, PHAPHAMAU, PRAYAGRAJ-2110021**

ASSIGNMENT PAPER

Semester-I

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-101N	Course Name: Ecosystem and Biodiversity Conservation	
SECTION -A		2*6=12 marks
Q. No.	Short answer type question (approx. 200 -300 words)	Marks
1.	Define ecosystem. Discuss the functions of ecosystem?	2
2.	What are the biotic and a biotic component of ecosystem?	
3.	Draw the food chain of terrestrial ecosystem with definition.	2
4.	Define biogeochemical cycles. Draw the carbon and hydrogen cycle	2
5.	What are the three types of ecological pyramids? Discuss it	2
6.	What are the three steps of the nitrogen cycle.	2
SECTION -B		6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	Describe in brief the components of an ecosystem. How the a biotic components is use full for biotic components.	3
8.	Define a population. Give a coincide account of various characteristics of a population of organisms.	3
9.	What do you know about ecological succession? Discuss the process of ecological succession on land ecosystem	3

ASSIGNMENT PAPER
Semester-I

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-102(N)		Course Name: Environmental Chemistry
SECTION -A		2*6=12 marks
Q.No.	Short answer type question (approx. 200 -300 words)	Marks
1.	What do you mean by pollutants? Define secondary pollutants with examples.	2
2.	What do you mean by air pollution? Discuss about composition of air quality of vehicles zone.	2
3.	What do you mean by green house effect?	2
4.	Define global warming. Write the effects of global warming	2
5.	What do you mean by photochemical oxidation?	2
6.	What is smog? Discuss the London and Los Angeles smog	2
SECTION -B		6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	What are greenhouse gases? Write the name of greenhouse gasses and discuss the effects of greenhouses.	3
8.	Discuss about Montreal protocol and its agreement	3
9.	Briefly discuss about settling chamber, its working methods, advantage and limitations.	3

ASSIGNMENT PAPER
Semester-I

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-103(N)		Course Name: Environmental Microbiology
SECTION -A		2*6=12 marks
Q.No.	Short answer type question (approx. 200 -300 words)	Marks
1.	What do you understand about molecular taxonomy?	2
2.	What do you understand by Polyphasic classification	
3.	What do you mean by nomenclature, discuss the role of primary domain in nomenclature?	2
4.	What do you know about nutrient media? Discuss about microbial culture media?	2
5.	Define autotrophs and heterotrophs.	2
6.	Define bacteriophage and protozoa.	2
	SECTION -B	6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	Soil is a habitat for microorganisms. Discuss critically.	3
8.	What is aeromicrobiology? Write in brief aeromicroflora of house and hospitals.	3
9.	Describe chemotherapy and its side effects on living systems.	3

UTTAR PRADESH RAJARSHI TANDON OPEN UNIVERSITY
SHANTIPURAM, SECTOR-F, PHAPHAMAU, PRAYAGRAJ-2110021

ASSIGNMENT PAPER

Session: 2025-26	Max. Marks: 30
Program Name: M.Sc. (Statistics/Computer Science/Mathematics/ Bio chemistry/ Environmental Science)	
Course Code: PGBR-01	Course Name: Basics in research

SECTION -A		2*6=12 marks
Q. No.	Short answer type question (approx. 200 -300 words)	Marks
1	Write down the meaning and objective of research.	2
2	Discuss the need for reviewing literature in brief. What are the types of literature review?	2
3	What do you understand by google scholar, science direct?	2
4	What do you understand by google Scopus, web of science?	2
5	write short notes on the following- a) Journal abstracts b) SciFinder	2
6	Write short notes on the following- a) Citation index b) Peer review and revision.	2
SECTION -B		6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7	Discuss in detail about the intellectual property and intellectual property rights (IPR).	6
8	write short notes on the following- a) Citation index b) Peer review and revision.	6
9	What are the various kinds of report writing in academics and research. Explain in detail.	6

ASSIGNMENT PAPER

Semester-II

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-106(N)		Course Name: Numerical and Statistical Computing
SECTION -A		2*6=12 marks
Q.No.	Short answer type question (approx. 200 -300 words)	Marks
1.	What are statistical data? Discuss the characteristics of qualitative data	2
2.	Discuss about major statistical techniques for organizing the data.	
3.	Discuss about Histogram and its significance in data arrangement	2
4.	What do you mean by central tendency? Write about mean, mean and mode	2
5.	Define computer and its components in your views	2
6.	Discuss about super computer and its working process	2
	SECTION -B	6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	What is a computer? State the essential components of a compute and give function of each of them in brief.	3
8.	What are Microsoft words? Discuss the features of Microsoft words.	3
9.	What is the Basics of R software, discuss it.	3

ASSIGNMENT PAPER

Semester-II

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-107(N)		Course Name: Energy Resources and Climate Change
SECTION -A		2*6=12 marks
Q.No.	Short answer type question (approx. 200 -300 words)	Marks
1.	Define law of thermodynamics.	2
2.	Define Ocean acidification and its impacts on ocean biodiversity.	
3.	What do you mean by Environmental Sustainability?	2
4.	What is electromagnetic radiation? Types of electromagnetic radiation	2
5.	Discuss about thermal conduction effect in environmental systems.	2
6.	What are conventional sources of energy? Discuss source and application of natural gas.	2
SECTION -B		6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	What do you understand by environmental physics? Discuss the scope and principle of environmental physics.	3
8.	Write the energy flow models in aquatic ecosystems and its characteristics.	3
9.	What is weather? Discuss the role of wind in the formation of weather	3

ASSIGNMENT PAPER

Semester-II

Session: 2025-26		
Program Name: MSc-EVS		
Course Code: PGEVS-108(N)		Course Name: Solid and Hazardous Waste Management
SECTION -A		2*6=12 marks
Q. No.	Short answer type question (approx. 200 -300 words)	Marks
1.	What is the solid waste? discuss the characteristics of soil waste	2
2.	Discuss the role of municipal corporation in waste management	
3.	Write the classification of solid waste and its composition.	2
4.	Discuss about solid waste land filling in India	2
5.	What is the incineration waste treatment process	2
6.	Discuss the impact on sanitary landfill on local, regional, and global levels.	2
SECTION -B		6*3=18 marks
	Long answer type question (approx. 500 -800 words)	Marks
7.	How many types of waste disposal methods? Discuss the sanitary land fill method of waste disposal.	3
8.	What is bioremediation? How can we achieve effective bioremediation of hazardous waste?	3
9.	What is the e-waste? Define the e-waste management and its handling in India.	3

UTTAR PRADESH RAJARSHI TANDON OPEN UNIVERSITY

SHANTIPURAM, SECTOR-F, PHAPHAMAU, PRAYAGRAJ-211021

ASSIGNMENT QUESTION PAPER (2025-20256)

M.Sc. (Statistics/Computer Science/Mathematics/ Bio chemistry/ Environmental Science)

III Semester

Subject: Statistics/Computer Science/ Mathematics/ Bio chemistry/ Environmental Science

Subject Code: M.Sc. (CS)/ M.Sc. (Statistics)/M.Sc. (Mathematics)/M.Sc.(Environmental Science)

Subject Title: Entrepreneurship development

Course Code: PGED-02

Maximum Marks: 30

Section- A

Note: Long Answer Questions. Answer should be given in 800 to 1000 words each. Answer all questions. All questions are compulsory.(Six marks each)

Maximum Marks: 18

1. Explain various type of entrepreneurship.
2. What are the needs and Objectives of Entrepreneurship Development Programs.
Explain eight stages of Entrepreneurship Development Cycle.
3. Explain any four all India Financial Institutions who aid to entrepreneur.

Section- B

Note: Short Answer Questions. Answer should be given in 200 to 300 words each. Answer all questions. All questions are compulsory. (Two marks each)

Maximum Marks: 12

1. What is entrepreneurship?What are the main characteristics of an entrepreneur to do entrepreneurship?
2. Differentiate between Entrepreneur, Intrapreneur &Manager.
3. What are the problems faced by women entrepreneurs in doingbusiness?
4. Explain the characteristics of projects with various types of project?
5. Highlight the need of technology for entrepreneurs.
6. What is the various assistance of financial Institutions to entrepreneurs?