Name ....

24P1044

M.Sc. DEGREE END SEMESTER EXAMINATION - NOVEMBER 2024
SEMESTER 1 : ENVIRONMENTAL SCIENCE
COURSE : **24P1EVST03 : RESEARCH METHODOLOGY II**
(For Regular - 2024 Admission)

Duration : Three Hours   Max. Weights: 30

PART A
Answer any 8 questions   Weight: 1

1.	What is fundamental research?	(R)
2.	Give an account of the steps of scientific methods in research.	(U)
3.	What is the nature of knowledge?	(E)
4.	How do you formulate a research objective?	(R)
5.	Differentiate between Patent and Copyright.	(An)
6.	Comment on unstructured observation.	(U)
7.	How is Prof. R.A. Fisher's name associated in research methodology?	(R)
8.	What is a sample? What is sampling?	(U)
9.	What is hypothesis?	(U)
10.	What is referencing? Name two international ways of referencing.	(U)

(1 x 8 = 8)

PART B
Answer any 6 questions   Weights: 2

11.	Write notes on systematic sampling.	(A)
12.	Write notes on probability sampling and nonprobability sampling.	(An)
13.	What are the different sources of information?	(U)
14.	Write a short note on science and pseudoscience.	(An)
15.	Explain briefly Randomized Block Design.	(E)
16.	Write a note on scientific method.	(Cr)
17.	Why is prediction important?	(An)
18.	Discuss the different sources of information.	(U)

(2 x 6 = 12)

PART C
Answer any 2 questions   Weights: 5

19.	Explain in detail case study method.	(U)
20.	Explain in detail Latin Square, Completely Randomised and Random Block experimental designs.	(An, CO 4)
21.	Explain the purpose, principle and advantages of sampling. Differentiate probability and nonprobability sampling. Explain various sampling methods.	(U, CO 5)
22.	What is literature review ? Explain literature review writing in research.	(A)

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 4	Define suitable research problem and its parameters	A	20	5
CO 5	Design, organize and conduct research (advanced project) appropriately	Cr	21	5

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;

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