

# SUPPLEMENTARY

Pre. Ph.D. Course Work (2017 Course) : (Environment Science) :

JUNE- 2019

SUBJECT : PAPER – I : RESEARCH METHODOLOGY / ENVIRONMENT SCIENCE

Day : Wednesday  
Date : 26/06/2019

Time : 10.00 AM TO 1.00 PM  
Max. Marks : 100

S-2019-5394

N.B.

- 1) Attempt ANY FIVE questions.
- 2) Figures to the RIGHT indicate FULL marks.

Q.1 What is Null hypothesis? Write a note on type of errors with example. (20)

Q.2 Following is the data recorded on nitrate content of water for two lakes. Analyze the data and show whether the two lakes are significantly different (t value for 8 d.t. at P = 0.01 is 3.355). Interpret the results. (20)

Sample	1	2	3	4	5
Lake 1	0.62	0.87	0.54	1.36	0.87
Lake 2	0.79	1.68	1.59	0.99	1.61

Q.3 How to apply for a patent and obtain the same? What could be possible problems you may encounter? (20)

Q.4 What are qualitative and quantitative research methods? Explain with suitable examples. (20)

Q.5 What is ANNOVA? Explain the process of calculation of ANNOVA with an example. How does the method help in interpreting the results? (20)

Q.6 If you are conducting a research on climate change, how will you use various online databases and retrieve data for research? (20)

Q.7 What are the types of research? Provide two examples. (20)

Q.8 What is intellectual property right? Explain with relevant examples. (20)

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