



School of Environment and Natural Resources
Doon University
Dehradun, Uttarakhand
Question Paper: End-Semester Examination

Ph.D. Environmental Science (First Semester)
 Course: Research Methodology
 Maximum Marks: 50

Session: Sep 2015 – Dec 2015
 Course Code: EES-710
 Maximum Time: 3:00 Hrs

Section A: Give answers to any FIVE questions:

(Marks: $2 \times 5 = 10$)

- (i) What are the common errors in defining a research problem?
- (ii) Draw a flow diagram of overall research process.
- (iii) What is a problem tree?
- (iv) Define “h-index” and “Journal Impact Factor”
- (v) What is SCI?
- (vi) What is LFA?

Section B: Give answers to any FOUR questions:

(Marks: $5 \times 4 = 20$)

- (a) What is research method and research methodology? How they are different to each other? Explain with proper examples.
- (b) Describe the process of communication of scientific results in scientific Journal.
- (c) Explain the processes involved in conceptual framework development using biodiversity as an example.
- (d) List the advantages and disadvantages of LFA technique in project formulation.
- (e) What is research design? What is the need for research design? List the features of a good design.

Section C: Give answer to any TWO question:

(Marks: $10 \times 2 = 20$)

- (1) Define Priority? Describe the steps involved in research priority setting. (Marks: 2 + 8)
- (2) Discuss the various steps involved in designing questionnaires.
- (3) What is research problem? Why it is necessary to define a research problem? Write a paragraph on time management to enable competitiveness in R & D. (Marks: 2 + 2 + 6)