

Reg. No. :

Name :

Ph.D. ENTRANCE EXAMINATION, NOVEMBER 2022

FACULTY OF SCIENCE

GEOGRAPHY

Time : 3 Hours

Max. Marks : 100

Instructions :

- 1) Answer **any ten** questions each from Section **A** and **B**.
- 2) Each question carries **5** marks.
- 3) No additional Answer sheets will be provided.
- 4) Candidates should clearly indicate the section, Question number in the answer booklet.

Section – A

Research Methodology

- I. Answer any **ten** questions. All questions carry equal marks.
1. Appraise field observation as a method in Physical Geography.
 2. Discuss the components of a research plan.
 3. Explain why theoretical framework is important in a research plan.
 4. Discuss methods of spatial sampling.
 5. Elucidate critical review of literature.
 6. Examine the important considerations while developing research questions.

7. Discuss participatory approach in research.
8. Illustrate any one of the referencing styles using in geography.
9. Differentiate between inductive and detective reasoning.
10. Discuss *species richness* as a method.
11. Explain the importance of citing sources.
12. Discuss focus group.
13. Discuss the major ethical considerations while doing academic research.
14. Explain descriptive statistics.
15. Discuss ethnography.

(10 × 5 = 50 Marks)

Section – B

Geography

- II. Answer any **ten** questions. All questions carry equal marks.
 1. Examine major ecosystem services provided by wetland ecosystem.
 2. Discuss about digital image pre-processing techniques.
 3. Discuss *spatial justice*.
 4. What is an environmental movement? Discuss the major environmental movements in Kerala.
 5. Discuss how the formation of geography as an academic discipline influenced by the Darwin's *Theory of Evolution*.
 6. Explain the importance of morphometry in fluvial landforms studies.

7. Discuss the potentiality of renewable resources in India.
8. Examine in detail *bio-geo-chemical* cycle.
9. Demonstrate the methodological procedures for conducting for successful Environmental Impact Assessment.
10. Analyze the nature and vulnerability of tropical cyclones in Indian Ocean.
11. Discuss the relevance of *Kyoto Protocol* to address the challenges due to climate change.
12. Discuss urban land use models of Harris and Ullman.
13. How can desertification be considered as an important global environmental issue.
14. Appraise the *post-colonial* nature of geography.
15. Discuss some of the major applications of GIS in natural resource management.

(10 × 5 = 50 Marks)
