

PGD WILDLIFE BIOLOGY Semester - 1 Examination**December-2024****Tools and techniques in wildlife research (LEVEL 1)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. Figures to the right indicate marks.

Section A Give Short Answers to the following Questions (3 Marks Each) [15]

1. What is a bias?
2. What is the WGS84 in GIS?
3. List the advantages of using primary data in wildlife research
4. Name any 4-image processing software used to process satellite data
5. Define Mean, Mode, and median

Section B Give Medium Answers to the following Questions (5 Marks Each) [25]

6. (a) Discuss the importance of ethical considerations in wildlife research

OR

- (b) Explain null and alternative hypotheses
7. (a) Describe the different types of field instruments commonly used in wildlife research

OR

- (b) What are the challenges in designing field studies for wildlife research?
8. (a) Explain the concept of sampling protocol and its importance in wildlife research

OR

- (b) Explain the limitations and cautions of secondary data in wildlife research
9. (a) What is digital image processing, and how is it applied in wildlife research?

OR

- (b) Explain the major steps involved in land use and land cover (LULC) classification
10. (a) Describe the different classification methods used to create LULC

OR**Section C Answers the following Questions (10 Marks Each, Attempt Any 3) [30]**

11. Explain the methods and tools used for monitoring the reptilian species in the field of wildlife research
12. Describe the various types of multivariate statistics and their applications in wildlife studies
13. Explain the applications of the following
 - I. LANDSAT 8
 - II. LISS4
 - III. GPS
 - IV. LULC
 - V. Raster data
14. Explain the steps involved in the formation of a scientific article and its structure?
15. Explain different secondary data sources and their limitations?
