



**Indira Gandhi National Tribal University,
Amarkantak (M.P.)**

Semester End Examination, April - 2023

Environmental Science

M.Sc. – III Semester

**Paper Name- Instrumentation and analytical
techniques in environmental science**

Paper Code- EST 303

Max Time: 3 Hrs.

Max Marks: 60

Note: Attempt any five questions. Each question carries 12 marks.
(5x12=60)

1. Describe the principle and application of a light microscope?
Sketch a well labeled diagram citing the working of a
fluorescent microscope. (12)
2. What is the principle behind the technique Polymerase chain
reaction, explain the principal and applications of the same?
(12)
3. Write Short notes on:
(a) GC-MS (b) Titrimetry
(2X6=12)
4. Briefly describe the principle and working of UV- Visible
spectrophotometer? Also explain its applications (12)

