

**Pre. Ph.D. Course Work (2017 Course ) SUPPLEMENTARY :  
(Environment Science) : JUNE- 2019  
SUBJECT : PAPER – II : RECENT ADVANCES IN ENVIRONMENT SCIENCE**

Day : Thursday	<b>S-2019-5402</b>	Time : 10.00 A.M. TO 01.00 P.M.
Date : 27/06/2019		Max. Marks : 100

**N. B. :**

- 1) Attempt **ANY FIVE** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.
- 4) Draw neat and labelled diagrams **WHEREVER** necessary.

**SECTION – I**

- Q. 1** Describe a technique for assessment of phytoplankton in a river ecosystem. (10)
- Q. 2** What is content analysis technique? Provide suitable examples for the same. (10)
- Q. 3** Describe importance of GPS in environmental studies and its application in data analysis. (10)
- Q. 4** What is PRA and its application in the social studies? (10)
- Q. 5** Describe direct animal census techniques. Provide suitable examples. (10)
- Q. 6** Describe in detail interpretation of Survey of India maps. (10)

**SECTION – II**

- Q. 7** Which parameters are important in order to assess the quality of water? Provide detailed information on any one. (10)
- Q. 8** What are methods included in conducting strategic environment assessment? (10)
- Q. 9** For a medium size Indian town how will you plan and design waste water treatment strategy. (10)
- Q.10** Can biodiesel be an option for India? If you have to plan for the state of Maharashtra what precautions need to be taken in production to processing to marketing of the same? (10)
- Q.11** Explain the techniques used for detection of: (10)
- a) Heavy metals in water
  - b) Pesticide concentration in water
- Q.12** How will you detect the soil contamination in an industrial belt? (10)

\* \* \* \* \*