TMP161080A **Reg. No: ……..**

Name: ……

M. Phil. DEGREE EXAMINATION, MARCH, 2017
SEMESTER I – BOTANY (ELECTIVE COURSE)
BO1EAMP – ENVIRONMENT AND CONSERVATION BIOLOGY

Time: Three Hours **Maximum Marks: 75**

PART A

I. Answer any nine questions. Each question carries 5 marks.

1. Briefly explain the structural and functional components of ecosystems.
2. Why the conventional biodiesel(I^{st} and II^{nd} generation biodiesel) is not considered as truly 'bio'? Mention the advantages of third generation biodiesel.
3. What are natural resources? Explain the major environment issues associated with conservation of water resources.
4. Explain the major stages in environment impact assessment.
5. Critically analyze the importance of remote sensing in environment management.
6. Define soil fertility. Explain the major physical parameters of soil fertility and mention how the physical properties are degraded?
7. Distinguish between EI Nino and La Nina.
8. Explain ecological foot prints.
9. Explain with examples synergism in environment toxicity
10. Why municipal solid waste management is a serious issue in modern times?
11. Compare and contrast environment friendliness of biogas and petroleum based cooking gas?
12. Explain bioleaching. What is its significance in bioremediation?

(9x5 =45)

PART B

II. Answer any two questions. Each question carries 15 marks.

13. Why climate change is considered fatal to human progress ET and sustenance? Explain the major causes and consequences of the climate change issue.
14. How human activities affect the global hydrological cycle? Explain the major causes and consequences of disruptions in hydrological cycle.
15. Explain the major kinds of environment toxicities that cause biodiversity erosion and degeneration of human health.
16. Explain the major kinds of biotechnological means of biodegradable solid waste management.

(2x15=30)