

B.Tech I Year I Semester (R15) Supplementary Examinations June 2016

ENVIRONMENTAL STUDIES

(Common to ECE, ME, EIE and IT)

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define environment.
 - (b) What are non-renewable energy resources? State their uses.
 - (c) Define food chain. Write its types.
 - (d) How consumptive values are helpful to human beings?
 - (e) Define Hot-spot. Name two hot-spots of India.
 - (f) What is water pollution?
 - (g) Classify solid waste with examples.
 - (h) When acid rain occurs? List its reasons.
 - (i) Write four impacts of global warming on environment.
 - (j) Write how ENVIS works.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Write in detail, working and function of wind mill and solar cell with a neat sketch.

OR

- 3 How synthetic fertilizer and pesticide cause an impact on living organisms and environment.

UNIT – II

- 4 Explain the structural components of desert and lake ecosystem.

OR

- 5 How In-Situ and Ex-Situ methods work for conservation of biodiversity?

UNIT – III

- 6 Enumerate waste water treatment. Explain trickling filters and activated sludge process.

OR

- 7 Define Noise pollution. Write any four effects and control measures of noise pollution.

UNIT – IV

- 8 What is CFC? How it is responsible for depleting ozone layer? What are its impact on environment and human health?

OR

- 9 Describe wildlife protection act and air prevention and control of pollution act.

UNIT – V

- 10 (a) Discuss the impact of increase of pollution on environment.
(b) What are the strategies taken for the development of child in healthy environment?

OR

- 11 (a) Is value education is necessary in the present scenario? Discuss.
(b) What is role of NMIS, GIS, database in environment and human health? Explain.
