

Reg. No. :

Question Paper Code : 20632

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2018.

Third/Fourth/Fifth/Sixth/Seventh/Eighth/Ninth Semester

Civil Engineering

GE 6351 – ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to all branches Except Marine Engineering)

(Regulations 2013)

[Also Common to PTGE 6351 – Environmental Science and Engineering for
B.E. (Part-Time) Third Semester – Civil Engineering and Second Semester –
Mechanical Engineering – Regulations 2014]

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is a bio-diversity hotspot? Give examples.
2. What is an endangered species? Mention with suitable examples.
3. Define acid rain.
4. Define oxygen cycle.
5. What is habitat fragmentation?
6. What is desertification?
7. Define e-waste.
8. Define sustainable development.
9. What is population explosion?
10. Write about Environmental Impact Analysis (EIA).

PART B — (5 × 13 = 65 marks)

11. (a) What is bio-diversity? Discuss the unique advantages of bio-diversity.
Or
(b) Discuss the man-wildlife conflict in India with cases from recent incidents.
12. (a) What are the causes and control measures for air pollution and soil pollution?
Or
(b) Discuss the measures that should be taken to de-pollute our waterways.
13. (a) Discuss the merits and de-merits of constructing big dams.
Or
(b) Write on the pros and cons of some of the renewable energy resources.
14. (a) Give the salient features of some of the laws related to environment.
Or
(b) Discuss some natural disasters and the measures to be taken to cope with them.
15. (a) Write notes on HIV/AIDS including its prevention measures.
Or
(b) Discuss the role of information technology in environmental sciences.

PART C — (1 × 15 = 15 marks)

16. (a) Discuss the desirable changes in lifestyle that will help conserve the environment.
Or
(b) Discuss mitigation and adaptation measures with regard to climate change.