

M. Sc. Semester-II Examination 2017
Environmental Science
Course: MEC-21
(Biodiversity and Conservation)

Time : Three Hours

Full Marks : 40

Questions are of value as indicated in the margin

Answer Question No.1 and **any four** from the rest

1. Write short notes on **any four** of the following : 2×4=8
 - (a) *in situ* conservation of biodiversity
 - (b) Agenda-21
 - (c) Bioprospecting
 - (d) Social forestry
 - (e) Diversity indices
 - (f) Ramsar Convention
 2. (a) Define biodiversity.
(b) “Various factors are responsible for determination of biodiversity in nature” – Explain briefly.
(c) Explain Shannon diversity index. 1+4+3=8
 3. Write short notes on the following : 4+4=8
 - (a) Biosphere reserve
 - (b) Keystone species and its role in controlling community structure.
 4. (a) What are the ecological degradations due to developmental activities?
(b) Discuss the process of eco-restoration. 2+6=8
 5. What are the causes of deforestation? Explain its consequences. 3+5=8
 6. Discuss man-animal conflict with a suitable example. 8
 7. (a) Define invasive alien species.
(b) What are the different characteristics of invasive species?
(c) Explain the impact of invasive species on native biota. 2+3+3=8
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