

M.Sc. Examination, 2019
Semester-II
Environmental Science
Course : MEC-21
(Biodiversity and Conservation)

Time : 3 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) Evenness index
 - b) *in situ* conservation
 - c) Natural World Heritage Sites in India
 - d) Traditional knowledge of medicinal plants
 - e) Eco-tourism
 - f) Farm forestry
 2. a) Discuss the values of biodiversity.
b) 'Various factors are responsible for determination of biodiversity in nature' – Explain. 4+4=8
 3. a) What are the criteria to qualify a region as biodiversity hotspot?
b) Discuss the various global initiatives for conserving hotspot regions.
c) 'Wetlands are among the world's most productive environments' – Explain. 1+5+2=8
 4. a) Define sustainable development.
b) Why is it so important for us?
c) Discuss critically how Agenda-21 will be helpful for promoting in sustaining development. 1+2+5=8
 5. a) What are bioprospecting and biopiracy?
b) Briefly discuss 'Basmati rice' and 'Hoodia' controversies. 2+(3+3)=8
 6. a) Discuss the major causes of deforestation.
b) Mention some of the strategies to conserve forests. 5+3=8
 7. a) What are the major causes of "Man-animal conflict"?
b) Discuss different strategies to combat the conflict of : 2+(3+3)8
 - i) Elephants and
 - ii) Tigers in West Bengal
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