

M.Sc. Examination 2018
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) Traditional water harvesting systems
 - (b) Biopiracy
 - (c) Levels of biodiversity
 - (d) Keystone species
 - (e) Traditional Knowledge
 - (f) Shannon index

 2. (a) State the reasons for high biodiversity in tropics. 2+2+4=8
 - (b) Why is it necessary to conserve biodiversity?
 - (c) Discuss different strategies for *ex-situ* conservation of biodiversity.

 3. (a) “The heart of the Ramsar Convention is the *wise use* of wetlands” – discuss it. 3+5=8
 - (b) Elaborate the criteria required for a wetland as ‘Ramsar site’.

 4. (a) What are sacred grooves? 1+3+4=8
 - (b) What is the status of sacred grooves in India?
 - (c) Elucidate its role in conservation.

 5. (a) Differentiate ecotourism and mass tourism. 3+5=8
 - (b) What are the prospects and consequences of ecotourism.

 6. (a) Define ‘Invasive Alien Species’ (IAS). 1+4+3=8
 - (b) Discuss the various types (processes) of introductions of IAS in a new area.
 - (c) What are the need for IAS management?

 7. (a) What is social forestry? 1+1.5+2.5+3=8
 - (b) Discuss the objectives and scope of it.
 - (c) Why did social forestry fail in India?
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