

MASTER OF SCIENCE (ENVIRONMENT SCIENCE & TECHNOLOGY)
(CBCS-2019 COURSE) M.Sc.(Environment Science & Technology) Sem-II :
WINTER : 2021

SUBJECT: BIODIVERSITY ASSESSMENT & CONSERVATION

Day :Monday
Date :27-12-2021

W-21208-2021

Time : 10:00 AM-01:00 PM
Max.Marks 60

N.B.

- 1) Answer any **FOUR** questions from Q.1 to Q.5.
- 2) Question **6** is **COMPULSORY**.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

-
- Q.1** a) Describe the causes of habitat destruction of tropical forests. (06)
- b) Explain the problems related to small population of animals. (06)
- Q.2** a) Explain the impacts of climate change on i) Marine ecosystem ii) Grassland ecosystem in India. (06)
- b) Describe the use of various indices in assessment of areas for biodiversity conservation. (06)
- Q.3** a) Explain with example habitat management methods used by park managers. (06)
- b) Describe the various criteria considered in designing protected areas. (06)
- Q.4** a) Explain ecorestoration related to aquatic ecosystems. (06)
- b) Explain advantages and disadvantages of approaches to conservation related to flagship species approach and ecosystem approach. (06)
- Q.5** a) Explain vulnerability to extinction with an example : (06)
- a) Species with large body size
- b) Species with low dispersal rate.
- b) What are the various problems and mitigation measures related to park management? Give example. (06)
- Q.6** Write short notes on any **THREE** : (12)
- a) Viable population size
- b) Habitat specialist and obligates
- c) Population bottlenecks
- d) Rates of extinction of Biodiversity

* * *