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PG CBCS
M.SC. Semester- III Examination, 2021
ZOOLOGY
 PAPER: ZOO 303B (SPL PAPER)
(BIODIVERSITY AND CONSERVATION ECOLOGY & AQUATIC ECOLOGY)

Full Marks: 40**Time: 2 Hours**

Write the answer for each unit in separate sheet

UNIT: ZOO 303B.1
(Biodiversity and Conservation Ecology)

Answer any TWO questions of the following:

2X10=20

1. What do you mean by biodiversity hotspots? State the criteria to be considered to designate an area as biodiversity hotspot. Add a note on CBD. 2+3+5
2. Define in-situ and ex-situ conservations. Discuss the merits and demerits of ex-situ conservation. 2+2+6
3. Write explanatory notes on
 - (a) Wildlife crime
 - (b) Social forestry 5+5
4. Discuss the possible impact of climate change on bio ecology of Amphibia. 10
5. Write the full form of GIS and GPS. Discuss the role of DNA finger printing in wildlife forensics. 2+2+6

UNIT: ZOO 303B.2
(Aquatic Ecology)

Answer any TWO questions of the following:

2X10=20

1. Describe the use of off-stream water sources for industrial and domestic uses. Comment on the human induced problems of coastal ecosystems. 5+5
2. Distinguish between red and black mangroves citing examples. Discuss the importance of wetlands. What is an atoll reef? 3+5+2
3. What is the function of coral reef in shoreline protection? Distinguish between creek, fen, bog and swamp. Comment on the impacts of human activities on river ecosystems. 2+4+4
4. Define fluvial process. Explain the horizontal and vertical zonation of sea. Define Integrated coastal zone management. Comment on the salt tolerating adaptation in mangrove plants. 1+4+2+3
5. a) Represent the profile of continental margin.
 b) Mention the criteria of a water body to be designated as a 'wetland'. What is Ramsar's convention? 4+(3+3)
