

Ex/SC/GEOG/PG/DSE/TH/21-1B/2023

**M. SC. GEOGRAPHY EXAMINATION, 2023**

( 2nd Year, 2nd Semester )

**ENVIRONMENTAL PLANNING AND MANAGEMENT**

**PAPER: SC/GEOG/PG/DSE/TH/21-1B**

Time : Two Hours

Full Marks : 50

Answer *any four* questions selecting one from each unit.

**Unit I: Fundamentals of Environmental Planning**

1. Mention the major steps of life cycle analysis of a thermal power plant. 'Environmental movements across various countries, changing over spatial scales, have come up with mixed outcomes' – comment. 5+5
2. Elucidate the importance of ecosystem valuation in natural resource management. Which kind of ecosystem service does tourism generally provide? Illustrate your answer with a suitable example. Bring out the regulatory and provisioning services offered by a large (> 10 ha) urban waterbody. 4+2+4

**Unit II: Environmental Movements, Laws and Policies**

3. What is clean development mechanism? 'Indian legislations for environmental protection are stronger in theory but not in practice' – critically assess. 4+6
4. Critically analyse the performance of Joint Forest Management programme in West Bengal during the last

[ Turn over

[ 2 ]

three decades. Mention the major features of the 'Indian Forests (Amendment) Act, 2019'. 6+4

### **Unit III: Sustainable Management of Ecosystems**

5. Outline some of the measures undertaken by the Vedanta-Sesa Goa Iron Ore to reclaim and restore mined-out lands. Mention the criteria for demarcation of CRZ III and NDZ. What is ENCORE? Give example of any one ecotourism destination from West Bengal mentioning why it is so designated. 4+2+2+2
6. How is ecological flow defined for the Indian rivers? What is the purpose of maintaining such flow? Which activities are prohibited in a notified wetland in India? Provide arguments in favour or against the shrimp culture practices by creating enclosures in a lagoon as a wise use of wetland. 2+2+3+3

### **Unit IV: Planning for Green Infrastructure**

7. Comment on the relative advantages and disadvantages of installing a rainwater harvesting system in a multi-storeyed building situated in a city under tropical monsoon climate. State the major blue-green infrastructures of Kolkata Corporation area. Can JNNURM be considered as a green infrastructure development programme in India? Justify. 4+4+2

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8. Critically evaluate the landscape design and management aspects of organic farms in tropical countries. Mention the major types of neighbourhood open spaces in an urban area. State the stages of evolution of urban riverfronts worldwide. 5+2+3

### **Internal Assessment**

**10**