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SARDAR PATEL UNIVERSITY
M. Sc. Integrated Biotechnology (IG-EBT) 8th Semester
Theory Examination - April 2015
PS08CIGEB2 – Environmental Management
23rd April 2015 (Thursday), 2:30 to 5:30 pm

Maximum Marks: 70

Note: (1) All the Questions are compulsory. (2) Figures on the right indicate marks.

- Q.1 Select the most appropriate option 1 x 8 = 8
- (i) Which one of the following areas in India, is a hotspot of biodiversity?
a. Sunderbans b Eastern Ghats
c. Western Ghats d Gangetic Plain
- (ii) Biodiversity is referred as:
a. Variety of flora b. Variety of fauna
c. All living habitat d. All of them
- (iii) Common thematic areas of sustainable forest management are:
a. Biological Diversity b. Forest health & vitality
c. Socio-economic function d. All of these
- (iv) Which one of the following is not included under *in situ* conservation?
a. National Park b. Zoological Garden
c. Wild life sanctuary d. Biosphere reserve
- (v) _____ is estimated area of Wetlands of India.
a. 58.2 million hectares b. 105.8 million hectares
c. 45 million hectares d. 5million hectares
- (vi) The Ramsar convention from its place of adoption in _____
a. Australia b. India c. Pakistan d. Iran
- (vii) _____ & _____ are indigenously developed satellites.
a. LANDSAT & IRS-IC b. TRIOS & IRS-IB
c. IRS-IA & IRS-IB d. IRS-IC & SPOT
- (viii) _____ device of satellite records seven wavelength bands from the visible to far-infrared portions of the electromagnetic spectrum.
a. Multispectral scanners b. Multispectral Mapper
c. Thematic Mapper d. Thematic scanners
- Q.2. Attempt any seven of the following 2 x 7 = 14
1. Explain the terms : IUCN, TRIPS, FAO, NBA
 2. Define bioprospecting & explain its significance.
 3. Enlist various benefits of agroforestry.
 4. Explain the significance of NTFPs.
 5. Explain the role of mangrove in wetland management.
 6. Enlist the reasons for wetland losses.
 7. Define remote sensing and types of remote sensing.
 8. Define Global Positioning System & its unique advantages.
 9. Comment: Hotspots have biodiversity significance
- Q. 3. a). How the concept of CBD come into the existence and explain in detail the 6

role of CBD in biodiversity conservation.

b). Write note on various campaigns against biopiracy. 6

OR

b). Write a note on Environment Protection Act 6

Q. 4. a). Discuss the criteria, indicators and issues of sustainable forest management. 6

b). Write a note on : Forest management for biodiversity conservation. 6

OR

b). What are NTFPs ? Discuss their importance and uses by suitable examples. 6

Q. 5. a). Enlist the types of prescribed burn method of wetland management. Discuss its site preparation & firing pattern in detail. 6

b). Write a note on criteria for wetlands of national importance. 6

OR

b). Enlist various Biological methods of wetland management and explain plant propagation method in detail. 6

Q. 6. a). Discuss basic principles & components of Geographic Information System (GIS) 6

b). (i) Write is relief displacement, discuss its importance in photogrammetric mapping. 3

(ii) Write a note on GPS 3

OR

b). How remote sensing technology began with the deployment of space satellites with emphasis on image sensing characteristics of various sensors. 6