

SEAT No. \_\_\_\_\_

(59)

**SARDAR PATEL UNIVERSITY****M.Sc. (Integrated) Biotechnology****Environmental Biotechnology – Eight Semester Examination****Friday, 22<sup>nd</sup> March, 2019****02.00 p.m. to 05:00 p.m.****PS08CIGEB2: Environmental Management****Total Marks: 70**

- Note: (1) Figures to the right indicate marks.  
 (2) Draw a neat and labeled diagram, wherever necessary.

**Q. 1 Choose the most appropriate answer from the four alternatives given:**

[08]

- (i). In case of Patent, term of protection available should be a minimum of.....  
 (a) five years (b) ten years (c) twenty years (d) none of them
- (ii). Environment Protection Act, 1986 is an Act of the .....  
 (a) parliament of USA (b) parliament of India (c) parliament of Japan (d) none of them
- (iii). ..... is conspicuously and important part of social forestry.  
 (a) agroforestry (b) natural forestry  
 (c) horticulture (d) all of them
- (iv). ..... number of the JFM general body should be women.  
 (a) 5% (b) 20% (c) 30% (d) 50%
- (v). Nalsarovar wetland selected under the National Wetland Programme is situated in.....  
 (a) Punjab (b) Maharashtra (c) Gujarat (d) Jammu & Kashmir
- (vi). ..... kind of mangroves can able to tolerate highest salinity can be used for wetland management to restore coastal region.  
 (a) red mangrove (b) black mangrove (c) white mangrove (d) green mangrove
- (vii). ..... is caused by the perspective geometry of the camera and the terrain at varying elevations.  
 (a) tilt displacement (b) relief displacement  
 (c) lens distortion (d) shrinkage of photograph
- (viii). The smallest area in the ground being sensed by the sensors is called .....  
 (a) spatial resolution  
 (b) swarth  
 (c) radiometric resolution  
 (d) spectral bands

(PTO.)

- Q.2 Answer any SEVEN from the following:** [14]
- (i). Write the salient feature of CBD.
  - (ii). Why biodiversity assessment is important for ecosystem management?
  - (iii). Differentiated between bioprospecting and biopiracy.
  - (iv). Write any five scope of agroforestry.
  - (v). What do you mean by sustainable forest management?
  - (vi). Write a short note on major goals of Ramsar convention.
  - (vii). Write a short note on national wetlands policy.
  - (viii). Which are the segments of GPS?
  - (ix). Remote sensing can be useful tool for hydrosphere studies - comment.

- Q.3** (a) Write a note on principle and objective of CBD. [6]  
(b) Give a details account on IBPGR and CITES. [6]

**OR**

- (b) Write a detail note on international biodiversity law. [6]
- Q.4** (a) Why biodiversity conservation is important for forest management programmes. [6]  
(b) What is agroforestry? Write a note on various objectives of agro forestry. [6]

**OR**

- (b) Write a detail note on management of non-timber forest products (NTFPs) [6]
- Q.5** (a) Write a note on Ramsar convention. [6]  
(b) Explain the role of marshes and habitat altering method in management of wetland. [6]

**OR**

- (b) Discuss prescribed burn method in detail for wetland management. [6]
- Q.6** (a) Explain image sensing characteristics of various IRS satellite system in detail. [6]  
(b) Discuss different kinds of distortions and displacement found in aerial photography. [6]

**OR**

- (b) Discuss in brief on Geographic Information System (GIS) [6]