



বিদ্যাসাগর বিশ্ববিদ্যালয়  
**VIDYASAGAR UNIVERSITY**

**Question Paper**

**B.Sc. Honours Examinations 2020**

(Under CBCS Pattern)

**Semester - V**

**Subject: BOTANY**

**Paper : DSE 1-T & DSE 1-P**

**Full Marks : 60 (Theory : 40 + Practical : 20)**

**Time : 3 Hours**

*Candidates are required to give their answer in their own words as far as practicable.*

*The figures in the margin indicate full marks.*

**DSE 1-T**

**Natural Resource Management [Theory]**

Answer *any two* of the following:

2x20=40

1. (a) What is Biodiversity?
- (b) State the full form and the categories of IUCN.
- (c) Write a short note on Sustainable utilization?
- (d) Write brief note on forest management strategies.

3+3+7+7

2. (a) State a comparative account of renewable and non-renewable source of energy with examples.
- (b) Write down the national and international efforts in resource management and conservation.
- (c) What is IPR?
- (d) What is soil degradation? 7+7+3+3
3. (a) Mention different approaches of sustainable utilisation on economic, ecological and sociocultural status.
- (b) Give an example of major and minor forest product
- (c) What is GIS?
- (d) How many types of forests are present in India? Give their detail account 6+3+2+9
4. (a) State two differences between endangered and endemic species.
- (b) What is CBD?
- (c) Write a short note on National Biodiversity Action Plan.
- (d) Write a short note on ecological footprint with emphasis on carbon footprint. 3+3+7+7

**Natural Resource Management**  
**DSE 1-P [Practical]**

Answer **any one** of the following:

1x20=20

1. a. Mention the process for measurement of dominance of woody species by DBH (diameter at breast height) method. 10
- b. Mention impact of solid waste generated by a domestic system in land degradation. 10
2. a. Write down the process for estimation of non-biodegradable waste.
- b. Write down the process for determination of forest cover off an area. 10+10
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**DSE 1-T**  
**Biostatistics [Theory]**

Answer *any two* of the following:

2x20=40

1. a. Write the basic principles of Biostatistics.  
b. What is arithmetic mean?  
c. Briefly describe the process of types and methods of data collection.  
d. Describe the process for the calculation of mean. 3+3+7+7
2. a. What is quartile deviation?  
b. Write the limitations of statistics.  
c. Describe the types and methods of correlation and regression  
d. Write about tabulation and presentation of data. 3+3+7+7
3. a. What is student 't' test?  
b. What is geometric mean?  
c. Discuss about the simple hypothesis.  
d. What is data? Describe the process for the calculation of Co-efficient of variations. 3+3+7+7
4. a. What are uses of statistics?  
b. Define median.  
c. What is standard deviation? Describe the process for the calculation of SD.  
d. Write the similarities and dissimilarities of correlation and regression. 4+3+6+7

**DSE 1-P**  
**[Practical]**

Answer any of the the following:

1x20=20

1. a. Calculation of mean, standard deviation from this data...

10

$\frac{X}{}$   
52  
80  
22  
30  
36

- b. Write the steps for the calculation of standard error.

10

2. a. How can you calculate "F" value?

- b. Mention utility of probity in science.

10+10

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VidyaSagar University