

Seat No. : _____

MN-141

March-2019

B.Sc., Sem.-VI

**CC-308 : Environmental Science
(Environmental Engineering Mole Methods)**

Time : 2:30 Hours]

[Max. Marks : 70

1. (A) Describe the working of Effluent Treatment Plant with diagram. **14**

OR

(1) Discuss characteristics of waste from Dairy Industry. **7**

(2) Discuss characteristics of waste from Dye Industry. **7**

(B) Answer any **four** in brief : **4**

(1) What is screening in ETP ?

(2) Which ETP step removes BOD from the waste ?

(3) Name types of filters used in ETP.

(4) Draw flow chart of CETP.

(5) List major constituents of tannery waste.

(6) Write process steps at pulp and paper industry.

2. (A) Describe Regression and Correlation methods giving its uses. **14**

OR

(1) Explain Mean, Median and Mode with calculated examples. **7**

(2) Describe Standard Deviation and Variance with formulae. **7**

(B) Answer any **four** in brief : **4**

(1) Define Probability.

(2) Give full name of SPSS.

(3) What is Chi-square test ?

(4) Give equation for Median when class interval is 10 units.

(5) What is curve fitting in regression model ?

(6) What is F-test ?

3. (A) Explain SPSS software and its use in statistical analysis. **14**

OR

(1) Describe personal computer and hardware associated with it. **7**

(2) Write a note on Operating systems for personal computer. **7**

(B) Answer any **three** in brief : **3**

(1) What is new name for SPSS ?

(2) Name two Operating System.

(3) What is use of data base application ?

(4) Name area of environmental science using computer application.

(5) What is server-client setup ?

4. (A) Write detailed note on Active and Passive remote sensing. **14**

OR

(1) Write a note on applications of Remote sensing. **7**

(2) Describe principles of GIS and GPS with applications. **7**

(B) Answer any **three** in brief : **3**

(1) Draw spectrum of electromagnetic radiation.

(2) Which geoinformatics techniques used to search mineral resources ?

(3) What is 'platform' in remote sensing ?

(4) What are means for aerial photography ?

(5) What is topography of land ?
