

M.Phil 1st Semester Examination, 2019

ENVIRONMENTAL STUDIES

*(Statistics and Computer Application
for Environmental Studies)*

PAPER —EVS-114

Full Marks : 40

Time : 2 hours

Answer four questions

The figures in the right-hand margin indicate marks

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

Illustrate the answers wherever necessary

1. (a) What is spread sheet ? Give some examples.
(b) What is the extension of an excel and powerpoint file ?

(c) List some advantages of use of Google search engine in research. (2 + 2) + 2 + 4

2. Consider the following data :

10

Name	Result%
Adams	47
Brooks	36
Cowell	94
Dillon	82
Edwards	62
George	46
Haynes	85
Jackson	67
King	48
Lewis	85
Morris	73
Peters	96
White	66

Table 1

Score below	No. in range
10	
20	
30	
40	
50	
60	
70	
80	
90	
100	

Table 2

Find the histogram of data supplied in Table 1 as per the bin range given in Table 2. Also draw a bar chart against Table 2.

3. (a) Write some features of powerpoint presentation tool.
- (b) What are the differences between animation and transition effect in powerpoint ? Give some examples (name) of animation and transitions.
- (c) What is a master slide ? Can we change the design of a slide after presentation is ready ? 4 + 4 + 2
4. (a) What do you mean by correlation ? Give the formulae to compute.
- (b) Use the below data to compute correlation coefficient.

X	1.0	2.3	3.1	4.8	5.6	6.3
Y	2.6	2.8	3.1	4.7	5.1	5.3

(c) How to activate Data Analysis tool, if it is not present under the Data section of MS-Excel ? 4 + 4 + 2

5. (a) What do you mean by moving Average ? What is its advantages ?

(b) Define web browser, internet and www.

(c) Write down the steps to compute standard deviation in a spreadsheet. Sample data may be constituted by your self. (1 + 1) + 6 + 2

6. (a) Distinguish among variance, co-variance and co-efficient of variation.

(b) Find the quartile deviation from the following :

Values : 10-15 15-20 20-25 25-30 30-40

Frequency : 4 12 16 22 10

4 + 6

7. The frequency distribution of carbon content

(per cent) in 100 determinations of a mixed powder is given below :

Carbon (%) :	4.0-4.1	4.2-4.3	4.3-4.5	4.6-4.7	4.8-4.9	5.0-5.1
Frequency :	10	20	25	30	10	5

Compute the arithmetic mean, median and standard deviation. 10

8. (a) State the advantages and disadvantages of Mean, Median and Mode.

(b) A car travelled 120 miles at 40 m.p.h and again 100 miles at 5 m.p.h. What was the average speed of the car ? 6 + 4

9. Assignment writing (to be submitted by the candidates before examination). 10