

Reg. No

Name

22P1030

M. Sc. DEGREE END SEMESTER EXAMINATION : OCTOBER 2022

SEMESTER 1 : ENVIRONMENTAL SCIENCE

COURSE : 21P1EVST02 : RESEARCH METHODOLOGY I

(For Regular - 2022 Admission and Supplementary - 2021 Admission)

Duration : Three Hours

Max. Weights: 30

PART A

Answer any 8 questions

Weight: 1

1. Explain the term "Generation of Computers". (U)
 2. Name the types of commands in DOS. (A)
 3. What are different measures of dispersion? (I)
 4. Define primary data and secondary data. (U, CO 1)
 5. What is Internet. Explain the working of Internet. (An)
 6. Define
 - Algorithm (A)
 - Flowchart
 7. How do we calculate median from ungrouped frequency distribution?. (U, CO 1)
 8. Briefly explain 'Statistical hypothesis'. (I)
 9. What are microcomputers? How are they classified? (U)
 10. State the multiplication theorem of probability. (An)
- (1 x 8 = 8)**

PART B

Answer any 6 questions

Weights: 2

11. Explain the different types of h/w & s/w? (A)
12. Distinguish between sampling errors and non-sampling errors. (U, CO 1)
13. What is the need of protocols? Which are the different types of protocols? (An)
14. What difference does the 5th generation computer have from other generation computers? (U)
15. What are the different measures of vital statistics? (I)
16. Define Powerpoint. Explain how to create a slide show in PowerPoint. (A)
17. Find mean, median and mode for the following data
40, 50, 30, 20, 25, 35, 30, 30, 20, 30 (E, CO 1)

18. What do you mean by analysis of variance?. Give its assumptions. (An)

(2 x 6 = 12)

PART C

Answer any 2 questions

Weights: 5

19. What is a Computer Program? List out the desirable characteristics of a good program. (A)

20. Write a short note on various secondary storage devices. (A)

21. The following table gives the yields of wheat in 22 best plots which are given two different fertilizers. Test whether the fertilizers are equal in their effects.(for 5% level of signinificance table value is 2.086) (E)

Fertilizer I : 9 7 6 5 8 12 10 14 13 8 13

Fertilizer II : 7 4 5 4 5 10 12 15 9 8 7

22. In the recently concluded exhibition, the child health care department conducted psychological test of intelligence of arthmetical ability on 10 children. The record showing intelligence and arithmetic ratio is as given below. Calculate the Pearson's coefficient of correlation (I)

Child:	A	B	C	D	E	F	G	H	I	J
I.R:	105	104	102	100	100	99	98	96	93	92
A.R:	101	103	100	98	95	96	104	92	97	94

(5 x 2 = 10)

OBE: Questions to Course Outcome Mapping

CO	Course Outcome Description	CL	Questions	Total Wt.
CO 1	Calculate and apply measures of central tendency and measures of dispersion for grouped and ungrouped data and to analyse demographic data	A	4, 7, 12, 17	6

Cognitive Level (CL): Cr - CREATE; E - EVALUATE; An - ANALYZE; A - APPLY; U - UNDERSTAND; R - REMEMBER;