

20. Three varieties of coal were analysed by four chemists and the ash content in the varieties was found to be as under:

	Chemists			
Varieties	C1	C2	C3	C4
A	17	19	21	22
B	24	26	25	21
C	30	32	36	38

Do the varieties differ significantly in their ash-content?

NOVEMBER/DECEMBER 2019

BAMB42 — BIO STATISTICS

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define biostatistics.

2. What is Compilation?

3. What is probability?

4. Define complementary event.

5. What is correlation?

6. Define negative correlation.

7. Define null hypothesis

8. What is level of significance?

9. Define analysis of variance.

10. Define replication.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Explain about the scope of statistics.

Or

- (b) What are the limitation of statistics

12. (a) Explain trial and event with an example.

Or

- (b) Write briefly on sample space and equally likely events.

13. (a) Explain about scatter diagram with an example.

Or

- (b) Discuss about regression lines.

14. (a) Describe about poisson distribution with an example

Or

- (b) Explain about median test with an example.

15. (a) Write a note on randomization.

Or

- (b) Discuss about one-way classification

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe classification of data. Also explain various parts of a table.

17. (a) Explain conditional probability and independent events.

- (b) A bag contains 8 red, 12 white and 4 green balls. What is the probability that

(i) 3 balls drawn are all white and

(ii) 3 balls drawn are one of each colour?

18. Obtain the two regression equation from the following data:

Age:	25	28	30	32	35	40	45	50
Blood Pressure	120	122	125	128	129	130	142	148

19. 12 coins are tossed. What are the probabilities in a tossing getting

(a) 8 or more heads

(b) less than 3 heads

(c) atleast 8 heads