

TB146810A

Reg. No.....

Name.....

B. Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MARCH 2017

SEMESTER VI - ZOOLOGY

**ZOO6GBB – GENERAL INFORMATICS, BIOINFORMATICS AND
BIOSTATISTICS**

Time: Three Hours

Maximum Marks: 60

PART A

I. Answer all questions. Each question carries 1 mark.

1. What is Booting?
2. What are Mainframe computers?
3. What is a Primary data?
4. What is E – value?
5. Expand NCBI.
6. What is Computational Biology ?
7. What is MS-Access?
8. Define Test of Significance.

(8×1=8)

PART B

II. Answer any six questions. Each question carries 2 marks.

9. What are microprocessors? Give an example.
10. What is an operating system ?
11. What is standard error?
12. Which are the types of correlation?
13. Calculate mean deviation from mean for the following data.
12, 25, 28, 30, 62, 63, 70, 75, 83, 85
14. What is FASTA?
15. What are the demerits of Median?
16. Types of Probability distributions?
17. Scope of Bioinformatics.
18. Empirical relationship between mean, median and mode.

(6x2=12)

PART C

III. Answer any four questions. Each question carries 4 marks.

19. What is an operating system? Mention its functions.
20. Comment on Programming languages.
21. Differentiate between LAN and WAN

22. Key Bio-sequences in Molecular Biology
23. Explain pipeline concept in drug discovery
24. Comment on RASMOL

(4x4=16)

PART D

IV. Answer any two questions. Each question carries 12 marks.

25. Which are the types of graphical representation in Biostatistics? Explain
26. Write an essay on the Popular Databases in Bioinformatics.
27. Explain Protein structure prediction.
28. Water percentage in the body of a species of fish and their frequency is given below.

Calculate the Quartile deviation.

Class Interval	15-20	20-25	25-30	30-35	35-40	40-45	45-50	50-55	55-60	60-65
Frequency	4	3	8	9	14	3	3	2	2	2

(2x12=24)