

Mid-West University
Examinations Management Office
Surkhet, Nepal
End Semester Examinations -2078

Bachelor level/ B.Sc/7th Semester
Time: 3 hrs

Full Marks : 100
Pass Marks : 50

Subject : Research Methodology and Biostatistics (ZOOL 471)

Candidates are required to give their answer in their own words as far as Practicable. The figures in the margin indicate full marks.

Group-A

1. Answer the following questions in very short (Attempt any ten questions) [10×1 = 10]

- a. Why biostatistics is important in research?
- b. Why research proposal are written? Give reason.
- c. What are secondary data? Give example.
- d. Define null hypothesis with example.
- e. Define the meaning of citation and referencing? Explain briefly.
- f. How can we reduce the instrumental error?
- g. Why random sampling is recommended in data collection?
- h. What is the formula to calculate standard error?
- i. Give two examples of scientific misconduct?
- j. Why standard deviation is measured in data analysis?
- k. Why abstract is important in research paper?
- l. Define dependent variable.

Group-B

Answer the following questions in short: (Attempt any eight questions) [8×5=40]

2. Describe the importance of statistics in biological research with examples.
3. Write short note on 'referencing and citation' style.
4. Why the literature review is necessary for researcher?
5. The data given below shows number of hours spent by a student on different activities on a working day. Illustrate the information in a pie graph.

Activity	school	Homework	sports	sleep	others	Total
No. of hrs.	7	4	2	8	3	24

6. Discuss the significance of setting hypothesis in research.
7. Differentiate between broad and specific objectives with relevant example.
8. What is seminar? Mention the importance of seminar for student.
9. Mention the types of various research designs with examples?
10. Why report writing is important in research project? Mention the content of preliminary part of research report.

Group-C

Answer the following questions (Attempt any five questions) [5×10 =50]

11. Why the proposals are written? Share a proposal outline in brief in the topic of your choice.
12. Why research is necessary in Karnali Province? Explain.
13. Describe various ways of scientific communication commonly practiced in academic sectors.
14. Discuss the various techniques of wildlife population estimation.
15. Define research design. Explain various types of research design that a researcher require to consider during research.
16. A patient is measured for respiratory rate per minute. And its 9 time measurement is; 23, 20, 22, 24, 16, 17, 18 and 19. Calculate; i) Means respiratory rate, ii) Variance, iii) Standard deviation and iv) Coefficient of variance.

THE- END