

A "T U I I L X V"

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2019
(Third Semester)

Branch -**BIOTECHNOLOGY**

CORE ELECTIVE - II: ADVANCED BIOTECHNOLOGY RESEARCH

Time: Three Hours

Maximum: 75 Marks

Answer **ALL** questions

ALL questions carry **EQUAL** marks

(2 + 5+ 8)

- 1 a Define Research Methodology.
b Discuss the significance of research.
c Comment on the problems encountered by researchers.
OR
d What is Primary data?
e Write an account on techniques involved in a research problem,
f Explain the characteristics of secondary data.
- 2 a Comment on research design,
b State the significance of a research design,
c Discuss the types of sampling.
OR
d What is Sampling Design?
e Differentiate between census and sampling,
f Discuss the types of research design.
- 3 a Define AMOVA.
b Explain student's T test with an example.
c Comment on discriminate function analysis.
OR
d State the theory of errors,
e Mention the applications of ANOVA.
f Compare correlation with regression.
- 4 a Define Edusat.
b List the advantages of E-content.
c Tabulate non profit funding agencies that sponsor for research.
OR
d What is citation index?
e How will you present a scientific presentation effectively?
f Differentiate between per reviewed journal and e-journal.
- 5 a Define research ethics.
b Comment on the consequences of GMO's.
c Bring out the ethics of animal research.
OR
d Define animal cloning,
e Mention the consequences of human cloning,
f Describe terminator seed technology.

Z-Z-Z

END