

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(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.
b Discuss the significance of research,
c Bring out the criteria for good research.
OR
d What is primary data?
e Write an account on techniques involved in a research problem,
f Describe the method of data collection.
- 2, a Write a note on research design.
b List out the features of a good research design,
c Discuss the types of sampling.
OR
d Define sampling design,
e Differentiate between census and sampling,
f Explain the types of research design.
- 3 a Define AMOVA.
b Explain 'F' test with an example,
c Comment on discriminate function analysis.
OR
d What is prolit analysis?
e State the applications of two way ANOVA.
f Compare correlation with regression.
- 4 a List any two applications of multimedia in Biotechnology research,
b Discuss the uses of ppt.
c Give an account on scientific report writing.
OR
d What is citation index?
e Analyze the components of a Ph.D thesis.
f Name the funding agencies that sponsor for research project.
- 5 a What are research ethics?
b Comment on the consequences of GMO's.
c Explain the ethics for animal research.
OR
d Define animal cloning.
e Distinguish between clinical trial and clinical practice.