Parvatibai Chowgule College of Arts and Science
Autonomous
B.A. Semester End Examination, January/February 2022

Semester: III
Subject: Psychology
Title: Experimental Psychology (Core)
Duration: 2 Hours   Max. Marks: 45

_____

Instructions: 1. All questions are compulsory
2. Figures to the right indicate full marks
3. Q1 has no internal choice
4. Q2 to 6 have internal choice

_____

Q1. Answer the following   **(06)**

a) What are control variables? Why are environmental variables easier to control than the subject variables?
b) Differentiate between natural and artificial experiments

Q2. Answer <u>ANY ONE</u> of the following   **(04)**

a) Read the following table and explain the experiment and its design
Following is an experiment done to study the recall of emotional and neutral words using stringent and lenient criteria.

Criterion for recall	Type of words	
	Emotional words (EW)	Neutral words (NW)
Stringent criterion (SC)	SC; EW	SC; NW
Lenient criterion (LC)	LC; EW	LC; NW

OR

b) Read the following table and explain its design
Following is an experiment done to study concept formation (how well/efficiently do students form concepts) in students studying Konkani or French as a second language in Private and Public schools.

Type of school	Second language	
	Konkani	French
Private	Private; Konkani	Private; French
Public	Public; Konkani	Public; French

PTO.

Q 3. Answer <u>ANY ONE</u> of the following (04)

a) On what basis does an experimenter decide to use either random or controlled selection of subjects?
b) What are the two main assumptions of parametric tests?

Q4. Answer <u>ANY ONE</u> of the following (06)

a) In an experiment with two conditions, what are the different ways in which the conditions are arranged/presented?
b) In an experiment using two IVs, how are statistical tests selected for data analysis?

Q5. Answer <u>ANY THREE</u> of the following (15)

a) How can studies done on students serve as a pitfall in interpretation of data?
b) How can environmental confounding be a pitfall in designing the experiment?
c) How can defective data lead to pitfalls in data analysis?
d) How can experimenters ensure that the instructions of the experiment are properly understood by the subjects?

Q6. Answer <u>ANY ONE</u> of the following (10)

a) How can selection of dependent variable be flawed?
b) Why is double blind method used in experimentation?

****