Ahmedabad University

School of Arts and Sciences

PSY 310 Lab in Psychology

Mid Term Examination 2022 (Monsoon Semester)

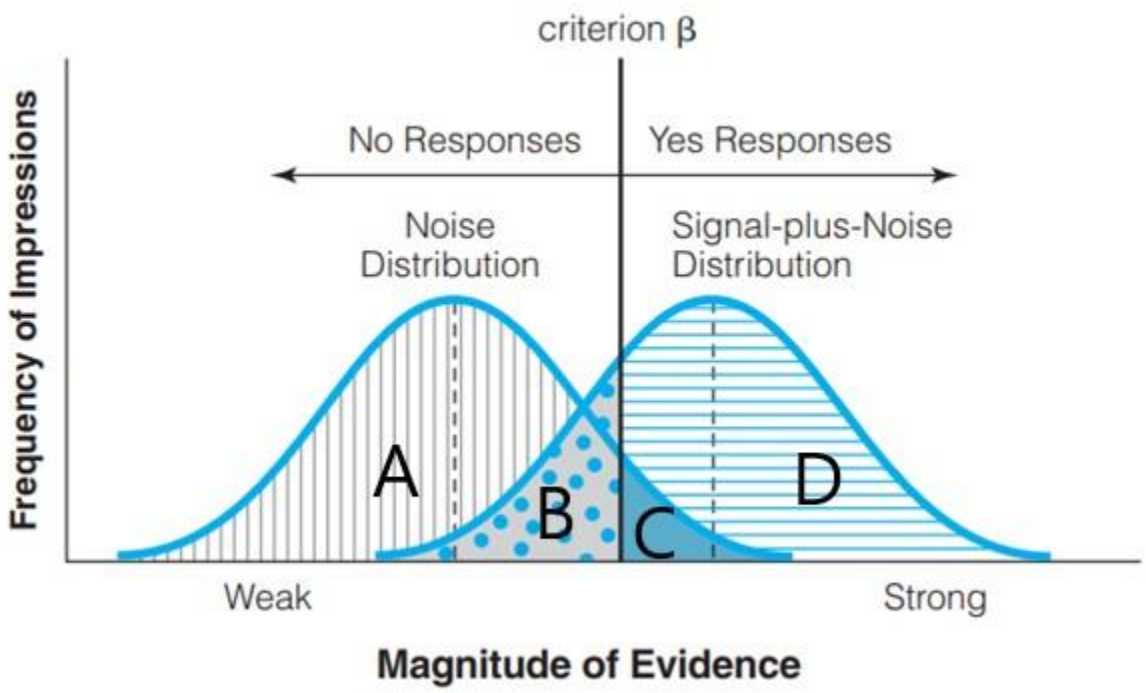
Total Marks = 20 **Time – 1 hour**

Enrolment Number:.....
Date: 25-09-2022
No. of printed pages: 2

1) Theory A says that the sun will rise in the east or west but not in the north and south; Theory B says that the sun will rise in the east, west, north or south. Which theory is more falsifiable? (1 point). Which is a better theory? (1 point)
2) What are the four criteria to evaluate a theory? (2 points)
3) Define Independent Variable and Dependent Variable (2 points)
4) What is the drawback of a between-subject design? (2 points) How can this drawback be minimized in a study (2 points)
5) How to control for general practice effects? (1 point)
6) Given below is the stimulus intensity and the corresponding detection response. YES response indicates that the participant detected the stimulus. NO response indicates that the participant could not detect the stimulus. Estimate the absolute threshold using the method of limits. (2 points)

Stimulus Intensity	Response
500	No
520	No
540	No
560	No
580	Yes
600	Yes

7) Given below is the hypothetical distribution based on signal detection theory. The part of the distribution corresponding to miss, hit, false alarm and correct rejection are marked by alphabets. Correctly identify the alphabet (A, B, C, D) corresponding to miss, hit, false alarm and correct rejection. (4 points)



8) What is the assumption of pure insertion? (1 point)

9) What is speed-accuracy trade-off? (1 point)

10) Define Donders's subtractive method? (1 point)