

**Department of Humanities and Social Science
Indian Institute of Technology Delhi
PhD Entrance Examination (Psychology)
(Total Marks: 100)**

Section 1

Answer any two questions from below. Each question is of 25 marks. Total marks for this section are 50.

Q.1. From the area that you plan to do your Phd, tell us about a study that has excited you. Describe the study in detail and explain following aspects of the study – Research question and why was it important, Research design, Results, Major contribution in terms of theory, research and/or application, How would you plan to take this particular line of research forward. (25 Marks)

Q.2. Suppose, your interest was to confirm factor solution of Keyes' Mental Health Continuum-Short Form scale and you collected 1000 participants' data for this study. But your results showed that it (CFA) is not confirmed in your study. Then what will you do? Write all the steps in detail. (25 Marks)

Q3. Using suitable example(s), (a) explain the assumptions of parametric testing, and (b) explain any one parametric test with an example. (25 Marks)

Q. 4. Psychologists wanted to investigate whether low self-esteem negatively influences academic performance. Explain how you would carry out this study. Justify your decisions as part of your explanation, you must refer to: Relevant psychological theory or research, Hypothesis, Research design, Sampling strategy, Control, Ethical issues, Statistical test to be used. (25 Marks)

Section 2

There are four sections of 50 marks each. Choose any one section from below.

Section A: Both the questions below are compulsory

Q.5. As you know the Delhi Govt. has initiated 'Happiness Curriculum' in Delhi schools. Suppose you are part of this project and your responsibility is to study this program's effectiveness. How would you plan your study? Elaborate all steps in detail. (25)

Q.6. How can we use advanced technology to improve well-being in Indian setting? Identify major psychological problems and suggest some intervention program to improve individuals' mental health. (25)

Section B: Both the questions below are compulsory

Q.7. What kinds of psychological challenges and issues are encountered by disadvantaged minorities in Indian society? (25 Marks)

Q.8. Discuss the major milestones in the development of social psychology as a discipline. What current challenges you think social psychology is facing today? (25 Marks)

Section C: Choose any two questions from below

Q.9. What has the research on intuitive versus deliberative reasoning taught us about decision making? Take an example from a specific domain or context to discuss what is your position. (25 Marks)

Q.10. Explain the concept of reference points from a phenomena both under certainty and another under ununcertainty? (25 Marks)

Q.11. Which theory do you think has been able to explain how people value and decide about gains versus losses in a significant way? Compare the one you mention with any other closely related theory that also attempts to do the same. (25 Marks)

Section D: Choose any two questions from below

Q.12. How will you test sex differences in cognitive processes? (Specify hypothesis, variables, research design and statistical analysis with justification). (25 Marks)

Q.13. Discuss citing any study/experiment that you know in detail to demonstrates how emotions influence decision-making. (25 Marks)

Q.14. Write a brief note on, Mapping mental functions onto brain structures/areas. (25 Marks)