

M. A. PSYCHOLOGY
First Semester
Research Methodology
(MPY - 03)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer the following (any four):

5 × 4 = 20

- a) Define the meaning and purpose of psychological research.
- b) State different types of variables.
- c) What are the ethical problems in psychological research?
- d) Differentiate between population and sample.
- e) Outline the criteria's in selecting a research problem.
- f) State the meaning and purpose of research.
- g) Calculate mean from the data given below:

50, 48, 45, 42, 45, 44, 52, 46

2. Answer any three from the following:

3 × 10 = 30

- a) Define research. Distinguish between experimental and non-experimental research.

b) Define hypothesis. State the characteristics of a good hypothesis.

c) Discuss the criteria of a good research design.

d) After administering an achievement test on a sample taken for

experimental research the following data were obtained. Calculate the

value of t and test of significance of the obtained value of t at 0.05 level or

0.01 level of significance.

Group	No. of Students	Mean	SD
Pre-test	60	55	4.6
Post-test	60	61	5.2

e) In a learning experiment, 10 subjects are assigned at random to each of the six groups. Each group performs the same task but under slightly different experimental conditions. Do the groups differ significantly in the mean performance ?

Group

A	B	C	D	E	F
41	40	36	14	41	55
40	36	33	38	35	36
39	40	29	51	52	41
41	34	30	41	41	36
39	34	45	36	34	48
41	39	39	36	10	36
36	36	33	36	44	42
35	34	32	32	26	42

37	41	34	38	54	34
35	37	34	36	30	40
384	371	345	358	367	410

Grand Total 2235

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PART A: Objective

Duration: 20 minutes

Marks – 20

Select the correct answer:

1 × 10 = 10

1) What is the meaning of data?

- a) Facts
- b) Truths
- c) Observations
- d) Marks obtained

2) What are the kinds of variables?

- a) Continuous
- b) Discrete
- c) Both
- d) None

3) What are the characteristics of a good sample?

- a) Clarity
- b) Stability
- c) Flexibility
- d) All these

4) Which is the technique of investigation involved in face to face conversation?

- a) Questionnaire
- b) Interview
- c) Observation
- d) Sociometry

5) Which is the technique used for measuring interpersonal relationships within a group?

- a) Psycho gram
- b) Psychodynamics
- c) Sociogram
- d) Scalo gram

6) What is the difference between laboratory experiment and field experiment?

- a) Difference of place
- b) Difference of samples
- c) Difference of variables
- d) All these

7) Which experiments are more popular in educational research?

- a) Laboratory Experiment
- b) Field Experiment
- c) Field Studies
- d) Historical research

8) What are the foundations of statistical analysis?

- a) Explanation of results
- b) Presentation of data
- c) Both
- d) Neither

- 9) What is the meaning of null hypothesis?
- a) Difference between two parametric mean is zero
 - b) The difference is due to error in some sampling
 - c) Both
 - d) Neither

- 10) In t-test when separate samples are selected in two groups in one population or in two populations, the test used is :
- a) Two tailed test
 - b) One tailed test
 - c) Analysis of variance
 - d) All these

11) Match the columns (the tools of research & the subject of its study):

1 × 5 = 5

Column A

Column B

- | | |
|---------------------|-------------------------------|
| a) TAT | i) Intelligence of uneducated |
| b) Rorschach | ii) Intelligence of educated |
| c) Performance Test | iii) Personality Traits |
| d) Verbal Test | iv) Memory |
| e) Memory Test | v) Unconscious motive |

12) State whether True or false:

1 × 5 = 5

- | | |
|--|------------|
| a) A tool is an instrument of research. | True/False |
| b) Intelligence test is not a tool. | True/False |
| c) A good hypothesis needs clarity | True/False |
| d) Laboratory experiment is empirical research | True/False |
| e) Experimental research is not precise. | True/False |
