

# Assignment **Container**

**STATISTICS IN PSYCHOLOGY**

**MPC-006**



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Assignment Container

**Statistics in Psychology**  
**(MPC006)**



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### **Assignment Container: Statistics in Psychology (MPC006)**

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## Guidelines/Tips to Write MAPC Assignments

### Using this Document

- Please note that the main aim of this document is to provide the guideline to write the assignment
- It is advisable not copy answers as it is from this document
- Write the answers in your own words
- Numbers of illustrations are also given in this document

### Paper

- You need to use A4 ruled paper (with lines). You can also use the A4 note book and cover it with plain and nice cover and put the desired information on it
- Also it is advisable to check with your resource/study center for any guidelines on the same and follow if it is there
- However, contain of the assignment is important as compare to the paper used to write it (As per our understanding)

### Writing your Answers

- Assignment should be Hand written and you can use both the side of the page to write your answer
- Write the Section/Question number with each answer and please write all the questions
- Make sure that the answer is within the stipulated word limit
- You can use Blue/Black ink to write your assignment (Don't use pencil in your assignment)
- Don't use RED Pen in your assignment as normally it is used to check the assignment
- If you wish you can use light color pens for illustrations/brain maps for your assignment
- Number of pages required to write the answer depends on your handwriting. Below is the approximately guideline for your reference

<b>Word Limit</b>	<b>1000</b>	<b>400</b>	<b>50</b>
Number of Lines in one paper	20	20	20
Words per line (Big Hand Writing)	7	7	7
<b>Total Pages required (Front and Back)</b>	<b>7</b>	<b>3</b>	<b>0.3</b>
Words per line (Small Hand Writing)	10	10	10
<b>Total Pages required (Front and Back)</b>	<b>5</b>	<b>4</b>	<b>0.2</b>

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**IGNOU MAPC**  
**STATISTICS IN PSYCHOLOGY (MPC-006)**

**Course Code: MPC-006**

**Assignment Code: MPC-006/ASST/TMA/2019-20**

**Marks: 100**

**Last Date of Submission: 30<sup>th</sup> April 2020 and 30<sup>th</sup> Sep 2020**

**SECTION-A**

Answer the following question in about **1000 words** (wherever applicable) each.

**15 x 3 = 45 Marks**

**Q. No. 1 Describe the major statistical techniques for organising the data with suitable example and diagrams.**

**Answer:** Data are collected often in raw form. These are then not useable unless organized. After collection of data (primary or secondary), it is necessary to organize them suitably and present in such forms as can facilitate subsequent analysis and interpretation.

There are four major statistical techniques for organizing the data. These are:

- Classification
- Tabulation
- Graphical Presentation, and
- Diagrammatical Presentation

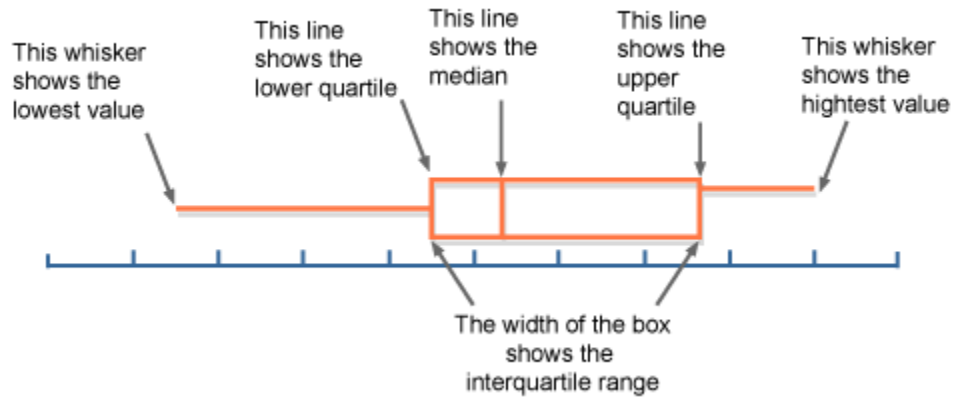
### **1. Classification of Data**

The process of arranging data into homogenous group or classes according to some common characteristics present in the data is called classification. Basically, classification is the process of arranging the data in groups according to similarities for its most effective and efficient use.

If the value of a variable occurs twice or more in a given series of observations, then the number of occurrence of the value is termed as the 'frequency' of that value. The way of tabulating a pool of data of a variable and their respective frequencies side by side is called a 'frequency distribution' of those data.

Let us consider the marks obtained by 100 students of a class in Statistics

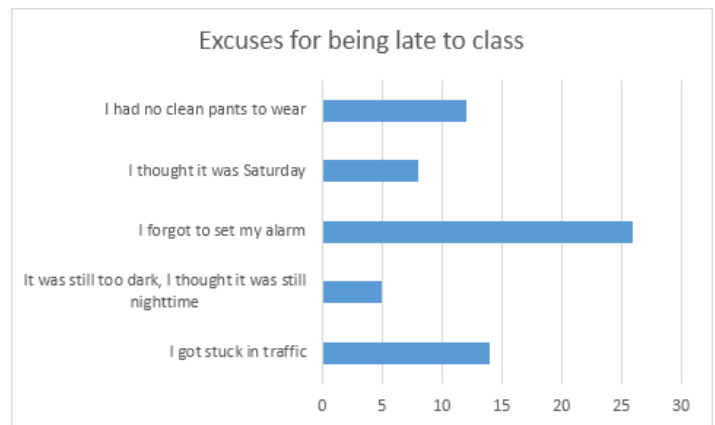
72 61 63 65 62 68 69 64 65 67 65 58 63 68 64 61 62 65 66 59  
69 56 60 66 62 57 72 67 65 70 62 65 65 60 64 61 64 69 62 64



#### 4. Diagrammatic Representation of Data

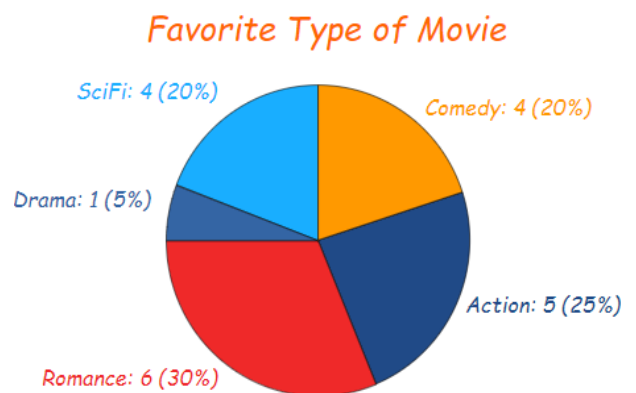
A diagram is a visual form for the presentation of statistical data. They present the data in simple, readily comprehensible form. Diagrammatic presentation is used only for presentation of the data in visual form, whereas graphic presentation of the data can be used for further analysis. There are different forms of diagram

- a. **Bar or Column Chart:** Bar charts are used for categorical data or the data that are transformed into categorical data. Categories are shown on the 'x'-axis. Frequency, percentage, or proportion is shown on the 'y'-axis. The bars are separated by small gaps to indicate that the data are categorical or discrete.



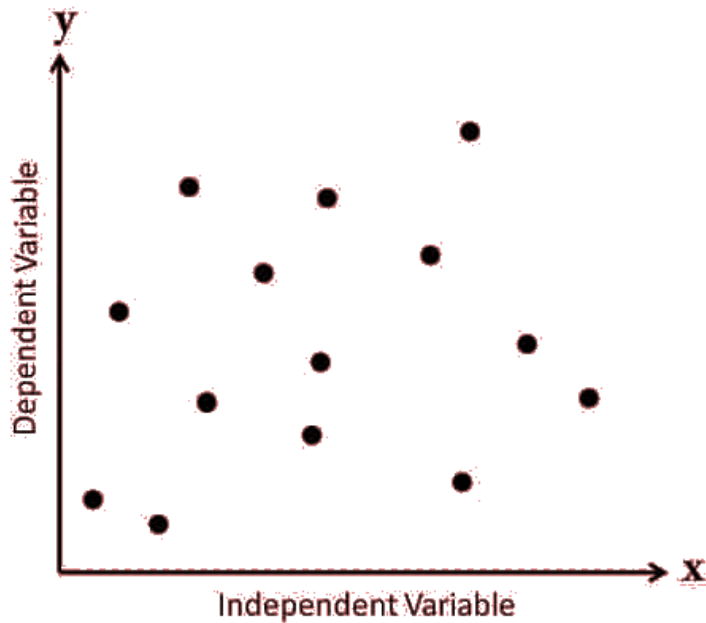
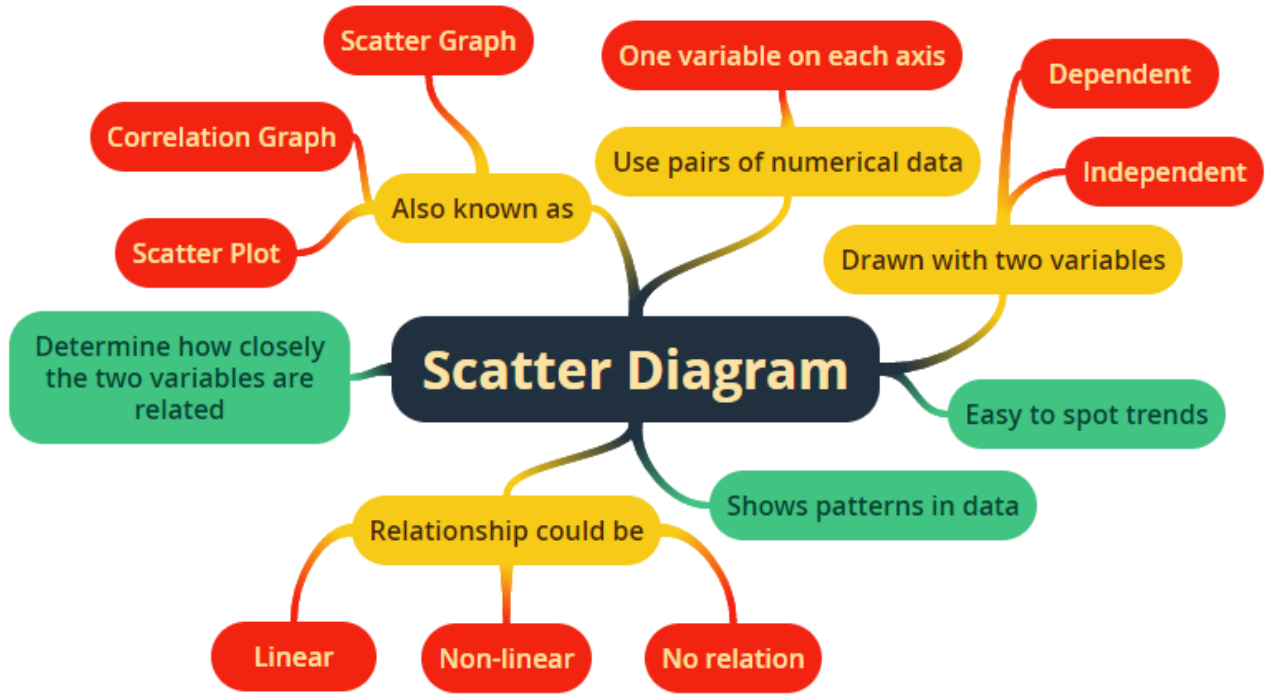
- b. **Pie Chart:** Like bar charts, pie charts are also used for categorical data. A pie chart consists of a circle divided into wedge-shaped 'slices', one slice for each category. The size of each slice is determined by the frequency of the category and measured by the angle of the slice.

(1012 Words)

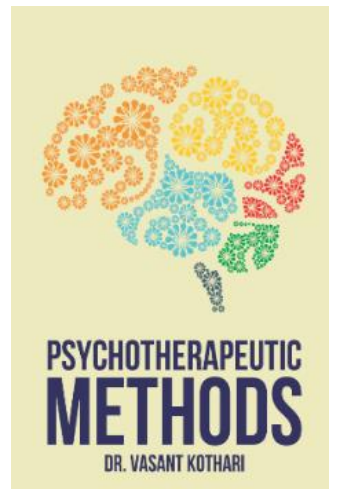
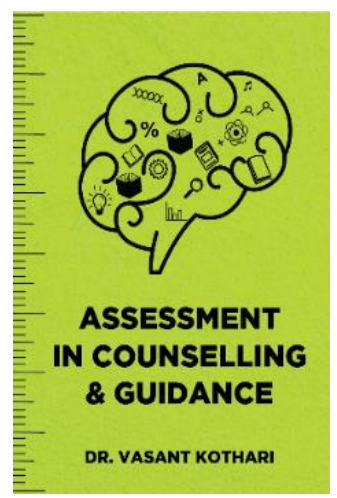
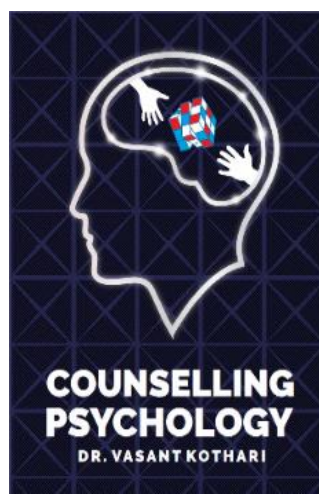
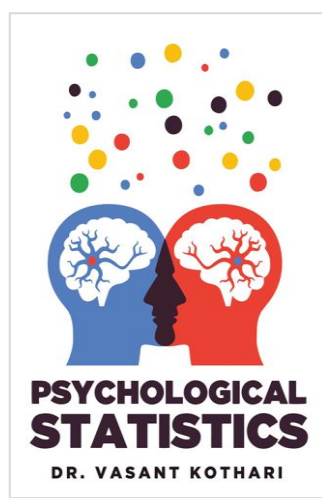
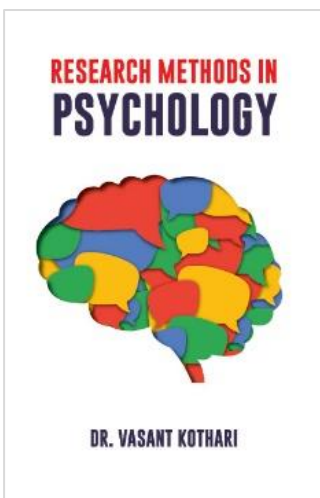
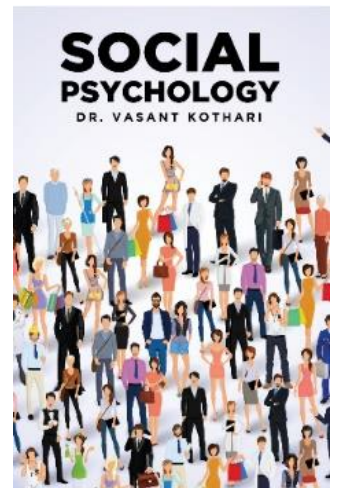
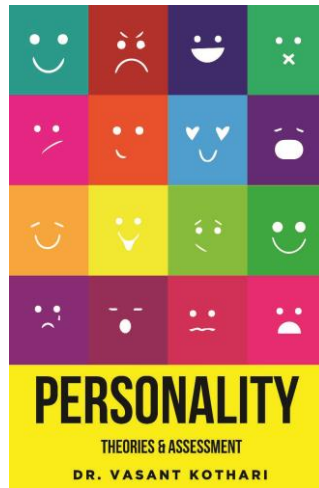
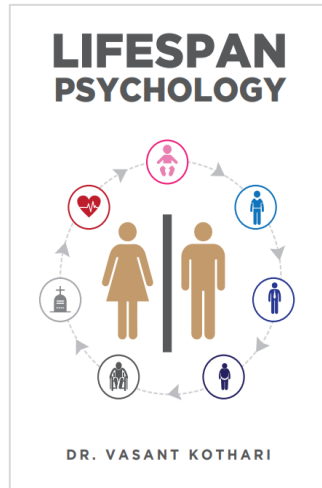




While the diagram shows relationships, it does not by itself prove that one variable are from a common cause that is unknown or that one variable can be used as a surrogate for the other. **(89 Words)**



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