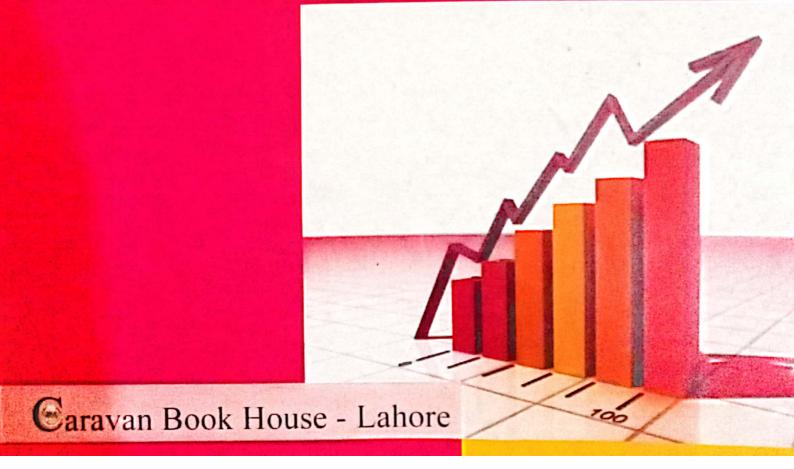


Compendium of STATISTICS

Lectureship,
Subject Specialist,
Statistical Officer,
S.S.S Statistics, M.A/M.Sc. Statistics
and Economics, GRE Statistics &
Other Competitive Examination

MCQs



CONTENTS

1.	INTRODUCTION	4
2.	PRESENTATION OF A DATA	.4
	Allowerd	100
3.	MEASURES OF CENTRAL TENDENCY AND DISPERSION	10
, ,	Answers	10
4/	PROBABILITY AND PROBABILITY DISTRIBUTIONS	10
7	Answers	E0
5.	REGRESSION ANALYSIS AND ECONOMETRICS	52
5.	Answers	25
	TIME SERIES AND FORECASTING	86
6.	Answers	03
_	Answers	94
7.	SURVEY SAMPLING AND RESEARCH METHODOLOGY	123
,	Answers	124
8.	STATISTICAL INFERENCE	154
1	Answers	155
\g .	DESIGN OF EXPERIMENT	
()	Answers	167
10	MILL TIMADIATE ANIAL VOIC	
/	A DOMOTO	
111	NON DADAMETRIC METHORS	
/ '		
10		
/ \		
13	INDEX NUMBERS	205
13		
	TECT DADED JULY PRODUCTION	
	CATURER (EDCA) CIAIISIICAL OFFICEN AND ONE 12010 COLOR	
	Answers	232
		232
	Answers	234
	Answers	235
	Answers	237
	AnswersCSS, STATISTICS PAPER 2005	237
	CSS, STATISTICS PAPER 2005	238
	CSS, STATISTICS PAPER 2005	238
	CSS, STATISTICS PAPER 2007	239
	CSS, STATISTICS PAPER 2007	230
	CSS. STATISTICS PAPER 2008	201
	Answers	241
	OCC CTATIOTICS DADED 2009	
	A	
	CSS STATISTICS DADER 2010	24.
	\ \max	
	CSS STATISTICS DAPER 2011	
	Answers	24

INTRODUCTION

- The origin of statistics can be traced to
 - a) State
 - b) Commerce
 - c) Economics
 - d) Industry
- Statistics may be called the science of counting' is the definition given by
 - a) Croxton
 - b) A.L. Bowley
 - c) Boddington
 - d) Webster.
- Raw data means
 - a) / Primary data
 - b) Secondary data
 - Data collected for investigation
 - d) Well classified data.
- 4. Which of the following are not the imitations of statistics?
 - a) Statistics study the individuals
 - b) Statistics tables may be misused
 - c) Statistical laws are exact
 - d) Both a & c but not b
 - e) None of the above
- 5. Which of the following level of measurements in which zero is meaning full?
 - a) Ordinal scale
 - b) Ratio Scale
 - c) Interval Scale
 - d) Nominal Scale
 - er None of the above
- 6. Which of the following mathematical structure of ordinal scale?
 - a) Permutation Group
 - by Isotonic Group
 - c) General linear Group
 - d) None of the above
- Numbering of brands is an example of Ordinal Data
 - b) Ratio Data

- c) Interval Data
- d) Nominal Data
- e) None of the above
- Advertising expenditure is an example of
 - a) Ordinal Data
 - b) Ratio Data
 - c) Interval Data
 - d) Nominal Data
 - e) None of the above
- A statistical data is
 - a) Qualitative
 - b) Quantitative
 - c) Both a) & b)
 - d) None of the above
- 10. A Qualitative data is
 - a) Ordinal
 - b) Nominal
 - c) Both a) & b)
 - d) None of the above
- 11. A Quantitative data is !
 - a) Interval Scale
 - b) Ratio Scale
 - c) Both a) & b)
 - d) Mominal
- ID number or workers, Zip code and telephone number are the examples of
 - a) Ordinal data
 - b) Ratio Scale data
 - c) Interval scale data
 - d) Nominal data
- 13. Which is a categorical factor?
 - a) Temperature used within an oven
 - b) The horizontal location of the logo on a web page
 - c). Type of tire used on a motorcycle
 - d) All of the above are categorical factors.
 - e) All of the above are correct except a) and d).

- 14. Which scale is the simplest form of measurement?
 - a) Nominal
 - b) Ordinal
 - c) Interval
 - d) Ratio
- 15. If a baseball coach calculates batting averages, what scale would be used? a)/ Interval scale

 - b) Ratio scale
 - c) Nominal scale
 - d) Ordinal scale
- of 16. Most the outcome/dependent variable characteristics and attributes measured in educational research probably exist at the ---- level of measurement.
 - a) Nominal
 - b) Ordinal
 - c) Interval
 - d) Ratio
- An ordinal scale is:
 - a) $\mathcal X$ The simplest form of measurement
 - b) A rank-order scale of measurement
 - c) A scale with equal intervals between adjacent numbers
 - d) A scale with an absolute zero point
 - e) A categorical scale
- Which of the following is the correct order of Stevens' four levels of measurement?
 - a) Ordinal, nominal, ratio, interval
 - b) Nominal, ordinal, interval, ratio
 - c) Interval, nominal, ordinal, ratio
 - d) Ratio, interval, nominal, ordinal
- 19. A condition or characteristic that can take on different values or categories is called .
 - a) A constant
 - by A variable
 - A cause-and-effect relationship
 - d) A descriptive relationship
 - None of the above
- 20 Which of the following includes examples of quantitative variables?.
 - Age, temperature, income, height

- b) Grade point average, anxiety level, reading performance
- Gender, religion, ethnic group
- d) Both a) and b)
- 21. What is the opposite of a variable?
 - a) A constant
 - b) An extraneous variable
 - A dependent variable
 - d) A data set
- 22. A number derived from sample data which describes the data in some useful way is called a:
 - a) Constant
 - b) Statistic.
 - c) Parameter.
 - d) Critical value.
- 23. Which of the following are examples of a variable?
 - a) Gender of a high school graduate
 - b) Number of major credit cards a person has
 - c) Type of automobile transmission
 - d) All of the above
- 24. A variable's level of measurement indicates the:
 - a) Number of questions used to measure the variable
 - b) Number of categories which can be used to group scores on the variable
 - c) Kinds of comparisons that can be made between cases in different categories
 - d) Correspondence between conceptual and operational definitions
- 25. Which of the following is an example of nominal level measurement?
 - a) Family size (number of children in a family)
 - Political participation (number of times voted in last 10 years)
 - Educational attainment (highest year or grade in school completed)
 - Political party affiliation (Republican, Democrat, Independent, Other)

- 26. Suppose a survey item asks someone if something is very important, somewhat important, not very important, or unimportant. This is an example of what level of measurement?
 - a) Nominal
 - b) Ordinal
 - c) interval
 - d) ratio
- 27. What level of measurement do most inferential statistics relies upon?
 - a) Nominal
 - b) Ordinal
 - Interval
 - d),/Ratio
- 28. An example of a measurement scale with an interval rather than a ratio scale is:
 - a) 1 = blue, 2 = green, 3 = red.
 - Temperature in degrees centigrade.
 - c) Area in square millimeters.
 - d) Priority ranking, such as first, second, third.
- 29. The following data were collected on the diameters of turned shafts: 2.506 2.508 2.505 2.505. These values are:
 - Attribute data.
 - Discrete data.
 - III. Variables data.
 - IV. Continuous data.
 - a) I and II
 - b) I only
 - c) II only
 - d) I and IV
 - e) III and IV
 - 30. Suppose a large image file is downloaded from the Internet. The speed of the data, in bits per second (bps), is plotted as a function of time in seconds. In this situation, data speed is considered
 - The dependent variable
 - The independent variable
 - c) A constant function
 - d) Nondecreasing

- 31. Which of the following is an example of a discrete variable?
 - a) The direction of the wind as a tornado passes.
 - b) The number of car accidents per month in a certain town.
 - The overall loudness of sound during a symphony.
 - d) The speed of a car on a highway.
 - e) The thrust of a jet engine during an airline flight.
- 32. Which of the following statements are correct?
 - a) Color of ten automobiles recently purchased at a certain dealership is an example of a univariate data set.
 - b) Height and weight for each basketball player on B.Z University team is an example of bivariate data set.
 - c) The systolic blood pressure, diastolic blood pressure, and serum cholesterol level for each patient participating in a research study is an example of multivariate data set.
 - d) None of the above statements is correct.
 - All of the above statements are correct.
- 33. Which of the following statements are correct?
 - a) Probability reasons from the population to the sample (deductive reasoning), whereas inferential statistics reasons from the sample to the population (inductive reasoning).
 - b) Hypothesis testing and estimation by confidence intervals are the least important types of inferential statistical procedures.
 - In a probability problem, properties of the population under study are assumed to be unknown.