

- 9) Which among the following is not a type of research?
 - a) Qualitative
 - b) Empirical
 - c) Analytical
 - d) None of these
- 10) Clinical trials involving new drugs are commonly classified into ----- phases.
 - a) One
 - b) Two
 - c) Three
 - d) Four
- 11) A Cohort study is a particular form of----- study that sample a cohort.
 - a) Vertical
 - b) Horizontal
 - c) Circular
 - d) Longitudinal
- 12) A histogram is an accurate representation of the distribution of-----
 - a) Alphabetic data
 - b) Numerical data
 - c) Both a and b
 - d) None of these
- 13) The file associated with minitab graph is-
 - a) * mgf
 - b) * mpj
 - c) * m+mm
 - d) * mt
- 14) Which among the following is not a use of regression modeling.
 - a) Predictive modeling
 - b) Segmentation
 - c) Testing
 - d) Analysis
- 15) Blocking is a technique for dealing with nuisance variables.
 - a) Uncontrollable
 - b) Unbearable
 - c) Bearable
 - d) Controllable
- 16) Confounding is a design technique for arranging a complete factorial experiments.
 - a) Row
 - b) Blocks
 - c) Both a & b
 - d) None of these
- 17) Design of experiments is the design of any-
 - a) Force
 - b) Task
 - c) Moment
 - d) All of these
- 18) A factor is a-----used to classify experimental units.
 - a) Fixed variable
 - b) Discrete variable
 - c) Both a & b
 - d) None of these
- 19) Central composite designs are----- level full factorial.
 - a) One
 - b) Two
 - c) Three
 - d) Four
- 20) Special geometric is-----
 - a) Cube
 - b) Sphere
 - c) Both a & b
 - d) None of these

2. Short answer questions **any seven.**

**5x7
=35**

- i) Calculate the median from the following data.

Wages	80-100	100-120	120-140	140-160	160-180
Workers	8	12	16	8	6

- ii) Define Biostatics and Biostatistics? Write their importance.

- iii) Calculate mode for following data.

Data	8-9	9-10	10-11	11-12	12-13	13-14	14-15
Frequency	8	14	21	25	15	10	7

- iv) Define central tendency and write about mean, median, mode?

- v) Write a note on one sample t-test and its uses?

- vi) Write a note on pie chart?

- vii) Define hypothesis testing in simple regression models?

- viii) Enlist the advantages of factorial design?

- ix) Explain in general central composite designs?

3. Long answers questions **any two**

**10x2
=20**

- i) Elaborate frequency distribution and their classification?

- ii) Discuss various phases of clinical trials?

- iii) Define and discuss factorial design?
