

4. A good hypothesis should be
- A) Formulated in such a way that it can be tested by the data
 - B) Precise, specific and consistent with most known facts
 - C) Of limited scope and should not have global significance
 - D) All of these
5. Field study is related to
- A) Real life situations
 - B) Laboratory situations
 - C) Experimental situations
 - D) None of the above
6. A statistical measure based upon the entire population is called parameter while measure based upon a sample is known as
- A) Sample parameter
 - B) Inference
 - C) Statistic
 - D) None of these
7. In Hindi language the term Anusandhan refers to
- A) Follower of an aim
 - B) Preying of an aim
 - C) Attain the aim
 - D) Become goal-oriented
8. The main condition which should be followed by research is
- A) Honest exploration
 - B) Knowledge of facts and principles
 - C) Standardized findings and conclusions
 - D) All of the above
9. A research should be
- A) Objective
 - B) Valid
 - C) Reliable
 - D) All the above

- 10.** Reliability is the fundamental quality of a research which also reflects
- A) Validity
 - B) Verifiability
 - C) Purity of data
 - D) Superiority
- 11.** Bibliography given in a research report
- A) Helps those interested in further research and studying the problem from another angle
 - B) Shows the vast knowledge of the researcher
 - C) Makes the report authentic
 - D) None of the above
- 12.** Which comes first, theory or research?
- A) Theory, because otherwise you are working in the dark
 - B) Research, because that's the only way you can develop a theory
 - C) It depends on your point of view
 - D) The question is meaningless, because you can't have one without the other
- 13.** Which of the following is not a type of research question?
- A) Predicting an outcome
 - B) Evaluating a phenomenon
 - C) Developing good practice
 - D) A hypothesis
- 14.** The core ingredients of a dissertation are :
- A) Introduction; Data collection; Data analysis; Conclusions and recommendations
 - B) Executive summary; Literature review; Data gathered; Conclusions; Bibliography
 - C) Research plan; Research data; Analysis; References
 - D) Introduction; Literature review; Research methods; Results; Discussion; Conclusion

- 15.** Which of the following is not a data-collection method?
- A) Research questions B) Unstructured interviewing
C) Postal survey questionnaires D) Participant observation
- 16.** The research antagonistic to ex-post facto research is
- A) Experimental studies B) Library researches
C) Normative researches D) All of the above
- 17.** The per capital income of India from 1950 to 1990 is four times. This study is
- A) Social B) Factorial
C) Longitudinal D) Horizontal
- 18.** Nine years old children are taller than 7 years old ones. It is an example of
- A) Vertical studies B) Cross-sectional studies
C) Experimental studies D) Case studies
- 19.** Hypothesis cannot be stated in
- A) Declarative terms B) Null and question form terms
C) General terms D) Directional terms
- 20.** All cause non sampling errors except
- A) Faulty tools of measurement B) Inadequate sample
C) Defect in data collection D) Non response

- 35.** Drag co-efficient for flow past immersed body is the ratio of _____ to the product of velocity head and density.
- A) shear stress
 - B) shear force
 - C) average drag per unit projected area
 - D) none of these
- 36.** In forced convection, Nusselt Number is a function of
- A) Re & Sc
 - B) Re & Gr
 - C) Pr & Gr
 - D) Re & Pr
- 37.** Pressure difference is increased due to increase rate of flow of either gas or liquid, level of liquid rises in down spout, this is called as
- A) Weeping
 - B) Priming
 - C) Flooding
 - D) Coning
- 38.** The ratio of momentum diffusivity to mass diffusivity is equal to
- A) Lewis Number
 - B) Schmidt Number
 - C) Prandlt Number
 - D) Sherwood Number
- 39.** Smoke is an example of
- A) Solid dispersed in liquid
 - B) Solid dispersed in gas
 - C) Liquid dispersed in gas
 - D) Gas dispersed in liquid
- 40.** H₂S present in naphtha reformed gas is removed by absorbing with
- A) Ethanolamine
 - B) HCl
 - C) H₂SO₄
 - D) Water

46. Nylon 6, 6 is produced by
- A) Chain growth polymerization
 - B) Step growth polymerization
 - C) Both chain and step polymerization
 - D) None of the above
47. Which of following material is not semiconductor?
- A) Silicon
 - B) Germanium
 - C) Gallium-Arsenide
 - D) Aluminium
48. In ball mill, crushing effectively done by
- A) Compression
 - B) Impact
 - C) Attrition
 - D) Cutting action
49. For a particle settling in water at its terminal velocity, which of following is correct?
- A) Buoyancy = Weight + drag
 - B) Weight + Buoyancy + drag
 - C) Drag = Buoyancy + weight
 - D) Drag = Weight
50. Unit loads like boxes, packages are transported by a _____ conveyor.
- A) Flat belt
 - B) Bucket
 - C) Trough belt
 - D) Screw



Rough Work

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