



Mareef

**Avinashilingam Institute for Home Science and Higher Education for Women**  
(Deemed to be University Estd. u/s 3 of UGC Act 1956, Category 'A' by MHRD)  
Re-accredited with 'A++' Grade by NAAC. Recognised by UGC Under Section 12B  
Coimbatore - 641 043, Tamil Nadu, India

**Continuous Internal Assessment Test III – July 2022**  
**II Semester**

**Class : I UG**  
**Major : All Majors**

**Time : 3 Hours**  
**Max. Marks: 100**

**21BAFU01- Fundamentals of Research**

**Part A**  
**Choose the Correct Answer**

**10 x1 = 10**

1. A research aims at CO1K2
  - a. Verifying the existing knowledge
  - b. Acquiring new knowledge
  - c. Filling the missing links in the existing Knowledge
  - d. All of the above
  
2. The research that applies the laws at the time of field study to draw more and more clear ideas about the problem is CO1K3
  - a. Action research
  - b. Experimental research
  - c. Applied research
  - d. Survey research
  
3. Primary data for the research process can be collected through CO1K2
  - a. Experiment
  - b. Survey
  - c. Both 'A' and 'B'
  - d. None of these
  
4. Which one is called non-probability sampling? CO1K5
  - a. Quota sampling
  - b. Cluster sampling
  - c. Systematic sampling
  - d. Stratified random sampling
  
5. This is also known as arithmetic average. CO1K1
  - a. Mean
  - b. Median
  - c. Mode
  - d. Standard Deviation
  
6. This is one of the most effective pictorial devices for comparing data. CO1K2
  - a. bar charts
  - b. graphs
  - c. pictograms
  - d. diagramme
  
7. Type-1 Error occurs when CO1K5
  - a. The null hypothesis is rejected even when it is true
  - b. The null hypothesis is accepted even when it is false
  - c. The null hypothesis as well as Alternative hypothesis, both are rejected
  - d. None of the above

8. Chi-square is used to analyse CO1K4
- a. Scores
  - b. Ranks
  - c. Frequencies
  - d. Variances
9. Which of the following completes the research process? CO1K2
- a. Research note
  - b. Report writing
  - c. Summary writing
  - d. Preface writing
10. This is the first of the terminal items presented at the end of the research report. CO1K2
- a. author index
  - b. foot notes
  - c. appendices
  - d. bibliography

**Part B**

**5 x 6 = 30**

**Answer ALL questions**

**Each answer should not exceed 400 words or two pages**

- 11.a. Define Research. Brief the importance of research in detail. CO1K1  
(or)
- 11.b. Elaborate the expected outcomes of research. CO1K2
- 12.a. Enumerate the qualitative methods of data collection in research. CO2K2  
(or)
- 12.b. With example, deliberate about the observation method of collecting primary data. CO2K2
- 13.a. Discuss the basics of data analysis in research. CO3K2  
(or)
- 13.b. Elucidate the various measures of central tendency with example. CO3K2
- 14.a. Distinguish between Type I error and Type II errors. CO4K4  
(or)
- 14.b. How will you test the difference between Z-Test and T-Test? Analyze. CO4K4
- 15.a. Write short notes on the characteristics of a good research report. CO5K1  
(or)
- 15.b. What is the purpose of Bibliography in reports? Discuss. CO5K2

**Part C**

**5 X 12 = 60**

**Answer ALL questions**

**Each Answer should not exceed 800 words or four pages**

- 16.a. Explain the various types of research in detail. CO1K2  
( or )
- 16.b. Demonstrate the steps in research process in detail. CO1K2
- 17.a. Compare and contrast primary and secondary data collection methods. CO2K4  
( or )
- 17.b. Classify the various kinds of sampling in research. CO2K2
- 18.a. Examine the various forms of diagrammatic and graphical representation of data. CO3K4  
( or )
- 18.b. Identify the measures of dispersion in statistical analysis. CO3K2
- 19.a. What are the various types of hypothesis? Explain in detail. CO4K2  
( or )
- 19.b. Investigate the significance of Chi-square test in statistical analysis. CO4K4
- 20.a. Describe the various steps in writing a report. CO5K1  
( or )
- 20.b. State the importance of research ethics and integrity. CO5K1

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