Advanced Statistical History and Foundations

Statistics & Probability · Answer Key · 10 Questions

1. In which year did Andrey Kolmogorov publish 'Grundbegriffe der Wahrscheinlichkeitsrechnung', which provided the axiomatic foundation for modern probability theory?

A) 1928
B) 1933
C) 1939
D) 1945

2. What is the exact value of the Laplace limit constant, which appears in the solution of Kepler's equation for planetary motion?

A) 0.662743
B) 0.748321
C) 0.824132
D) 0.912345

3. Who is credited with introducing the term 'regression' in his 1886 paper 'Regression towards mediocrity in hereditary stature'?

A) Karl Pearson
B) Ronald Fisher
C) Francis Galton
D) William Sealy Gosset

4. What is the value of the 'Omega constant' (?), defined as the unique real number such that ? * e^? = 1?

A) 0.567143
B) 0.621489
C) 0.718281
D) 0.843212

5. In 1908, William Sealy Gosset published his famous paper on the t-distribution under what pseudonym?

A) Beta
B) Student
C) Gamma
D) Sigma

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6. The 'Buffon's needle' problem, first posed by Georges-Louis Leclerc, Comte de Buffon, was introduced to the Paris Academy of Sciences in which year?

A) 1733
B) 1755
C) 1777
D) 1791

7. What is the exact value of the Feigenbaum constant delta (?), which describes the ratio of successive bifurcation intervals in chaotic maps?

A) 4.2235
B) 4.6692
C) 5.1234
D) 5.8876

8. Abraham de Moivre published 'The Doctrine of Chances', one of the first textbooks on probability theory, in which year?

A) 1708
B) 1718
C) 1728
D) 1738

9. The 'Central Limit Theorem' as a formal concept is largely attributed to the work of Pierre-Simon Laplace in which century?

A) 17th
B) 18th
C) 19th
D) 20th

10. Ronald Fisher's seminal work 'Statistical Methods for Research Workers', which introduced the analysis of variance, was published in what year?

A) 1920
B) 1925
C) 1930
D) 1935

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