

C 82166

(Pages 2)

Name

Reg. No.

SECOND SEMESTER ~~B.C.A~~ DEGREE (SUPPLEMENTARY/IMPROVEMENT)
EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Complementary Course

CA 2C ~~03~~—COMPUTER ORIENTED STATISTICAL METHODS

Time : Three Hours

Maximum : 30 Weightage

Part I

Answer all twelve questions.

1. Extreme value have no effect on :
 - (a) Average.
 - (b) Median.
 - (c) Geometric mean.
 - (d) Harmonic mean.
2. The average of the sum of squares of the deviations about mean is called :
 - (a) Variance.
 - (b) Absolute deviation.
 - (c) Standard deviation.
 - (d) Mean deviation.
3. The term regression was introduced by :
 - (a) R. A. Fisher.
 - (b) Sir Francis Galton.
 - (c) Karl Pearson.
 - (d) None of the above.
4. Classical probability is also known as :
 - (a) Laplaces's probability.
 - (b) Mathematical probability
 - (c) A priori probability.
 - (d) All the above
5. A family of parametric distribution in which mean is equal to variance is :
 - (a) Binomial distribution. _____
 - (b) Gamma distribution.
 - (c) Normal distribution. _____
 - (d) Poisson distribution.
6. The mean of the Chi-square distribution with n d.f. is _____
7. The dependence of two attributes can be tested by _____
8. The unbiased estimator is not necessarily _____
hypothesis contrary to null hypothesis is known as _____ hypothesis.
10. The geometric mean of four numbers 2, 4, 8 and 64 is.

Turn over

11. The middle value of an ordered series is called. t.
12. In tossing three coins at a time, what is the probability of getting at most one head ?
(12 x = 3 weightage)

Part II

Answer all **nine** questions.

13. Define geometric mean.
14. Define correlation coefficient.
15. Define regression coefficient.
16. Give classical definition of probability.
17. State addition theorem of probability.
18. What do you understand by a distribution function ?
19. Define moment generating function.
20. Define two types of errors in testing of hypothesis.
21. Define the level of significance in testing of hypothesis.
(9 x 1 = 9 weightage)

Part III

Answer any **five** questions .

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22. What are requisites of a good measure of dispersion ?
23. Define quartile deviation and give its importance.
24. State multiplicative law of probability.
25. What are the properties of a distribution function ?
26. What do you understand by conditional random variable ?
27. Define and discuss mathematical expectation.
28. Define and discuss moments in brief.
(5 x 2 = 10 weightage)

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Part IV

Answer any **two** questions.

29. Define Poisson distribution and discuss its properties.
30. Define F- distribution and give its properties.
31. Describe the method of interval estimation.
(2 x 4 = 8 weightage)