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.

   (b) Normal distribution. (d) Poisson distribution.

6. The mean of the Chi-square distribution with n d.f. is _____

7. I; dependence of two attributes can be tested by _____

8. An 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.

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 .*

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)

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)