Unit – VII
ASSOCIATION OF ATTRIBUTES
Section – B
Two marks questions

1. What is meant by association of attribute? Name the different methods of measurement? (K)

2. What is the difference between coefficient of correlation and association of attributes? (U)

3. Write the formula of Yule's coefficient of Association with its range. (K)

Section – C
Five marks questions:

4. Calculate Yule's coefficient of association between marriage and result of students from the following data pertaining to 525 students. (A)

	Pass	Fail
Married	90	65
Unmarried	260	110

5. Eighty eight residents of a city were interviewed during a sample survey and were classified according to smoking and tea drinking habits. Calculate Yule's coefficient of association and comment on its value. (A)

	Smokers	Non-smokers
Tea drinkers	40	33
Non tea drinkers	3	12

6. From the following table find if there is any association between usage of credit card and expenditure, using Yule's coefficient. (A)

	Credit card	No credit card
Expenses	225	50
No Expenses	75	I50

7. Compute Yule's coefficient of Association from the following data.
   $(AB) = 150$, $N = 1000$, $(A) = 200$, $(B) = 300$. (A)

8. Compute Yule's co-efficient of Association from the following data.
   $N = 250$, $(A\beta) = 70$, $(A) = 100$, $(B) = 50$. (A)

9. Given, $N = 500$, $(\alpha\beta) = 280$, $(A) = 160$ and $(B) = 200$. Calculate Yule's coefficient of Association. (A)

10. Given, N = 2500, (AB) = 400, (α) = 2100 and (β) = 900. Calculate Yule's coefficient of Association. (A)

11. Prepare a nine square with the following information. Calculate the Yule's Coefficient of Association and interpret the result. (A) = 450, (B) = 600, (Aβ) = 100, N = 1000. (A)

12. Find the association between intelligence of fathers and the intelligence of sons from the following data :

    Intelligent fathers with intelligent sons: 50
    Dull fathers with intelligent sons   : 100
    Dull fathers with dull sons   : 300
    Intelligent fathers with dull sons   : 200 (A)

13. 2000 candidates appeared for a competitive examination. 400 cleared the exam. 350 of them had attended a coaching class, out of which 200 had cleared the exam. Conclude regarding the effectiveness of coaching classes, by using Yule's coefficient of Association(A)

14. 200 candidates appeared for II PUC Examination in a college and 60 of them passed in distinction. 35 had received special coaching in college and out of them 20 Candidates passed in distinction. Using Yule's co-efficient, discuss whether the Special coaching is effective or not. (A)

15. In a collage there are 200 students, out of which 150 are boys. In an examination 120 of the students passed. 10 of the girls failed. Using Yule's coefficient find if there is any association between gender and passing of the examination. (A)

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