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**MATHEMATICS & STATISTICS (88)**  
**(COMMERCE) PAPER - II**

Time : 2 Hrs.

(7 Pages)

Max. Marks : 40

- Notes :** (i) All questions are compulsory.  
(ii) Graph paper is not necessary for L.P.P. Only a rough sketch of the graph is expected.  
(iii) Figures to the right indicate full marks.  
(iv) Answer to every question must be written on a new page.

**Q. 1. (A) Attempt any ONE of the following :**

[8]

- (i) Examine the type of association between the attributes A and B from the following data :  
(A) = 225, (B) = 325, (AB) = 155, N = 500. (2)
- (ii) In the study of attributes, following results were obtained :  
N = 200, (A) = 50, (B) = 50, (AB) = 25.  
Test whether the attributes are independent or not? (2)

**(B) Attempt any ONE of the following :**

- (i) A and B represent the attributes 'going for morning walk' and 'being physically fit' respectively. Compute Yule's coefficient of association between A and B if –  
N = 200, (A) = 120, (B) = 100, (AB) = 80.  
Comment on your answer. (2)
- (ii) With usual notations prove that –  
 $(ABC) \geq (A) + (B) + (C) - 2N$ ,  
provided the data is consistent. (2)

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