



Name: _____

Muzamil Ali

Class: _____

Roll No. _____

Subject: _____

Test No. _____

Date: _____

	A	B	C	D		A	B	C	D		A	B	C	D		A	B	C	D
1	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	6	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	11	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	16	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	7	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	12	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	17	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Marks Obtained

Q₂

S/Q

(i)
Attribute

An attribute is a qualitative characteristics or property of a subject that cannot be measured numerically.

eg,

gender, color etc.

(ii)

Two attributes are independent when the occurrence of one attribute does not affect the occurrence of the other.

(iii)

Given that

$$n = 100$$

$$A = 40$$

find $a = ?$

Here,

$$a = n - A$$

$$= 100 - 40$$

$$= 60$$

iv)

Given that:

$$n = 1024 \quad (A) = 640 \quad (B) = 384 \quad (AB) = 54$$

Here

Expected frequency of AB

$$E(AB) = \frac{(A) \cdot (B)}{n} = \frac{640 \times 384}{1024} = 240$$

Now, comparing AB with $E(AB)$
 $AB \neq E(AB)$

9a)

SA

by using (Yule's coefficient of Association)

$$Q = \frac{ad - bc}{ad + bc}$$

where $a = 528$, $b = 25$, $c = 790$, $d = 175$

Substitute the values

$$Q = \frac{(528 \cdot 175) - (25 \cdot 790)}{(528 \cdot 175) + (25 \cdot 790)}$$

$$= \frac{92400 - 19750}{92400 + 19750}$$

$$= \frac{72650}{112150}$$

$$= 0.6478$$

$$Q = 0.6478$$

there is a positive association between infection against typhoid and exception from attack