

**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA**

**BAMS LEVEL II – SECOND SEMESTER EXAMINATION – MARCH 2016**

**RESEARCH METHODOLOGY AND BIO STATISTICS**

**COURSE CODE – SW 2101-2201**

**Time: 1 hour  
9.00 a.m –10.00 a.m**

**Index no**

**Answer all questions.**

**Structured Questions**

1. i. What is a confidence interval? (05 Marks)

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- ii. What are the information we need to express the confidence interval? (05 Marks)

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ii. What are the measurements of morbidity?

(05 Marks)

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iii. In a survey of 1,150 women who gave birth in Colombo Hospital in 2000, a total of 468 reported taking a multivitamin at least 4 times a week during the month before becoming pregnant.

Calculate the prevalence of frequent multivitamin use in this group.

(10 Marks)

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**Essay Question**

1. i What is the test of significance? (12 Marks)

ii. What are the steps in hypothesis testing? (18 Marks)

iii. A sample of 100 new born babies was taken at random the average birth weight of this sample was computed to be 2570 g with standard deviation of 120 g.

At 99% confidence level can we conclude that the claim is valid?

(30 Marks)

(At 99%,  $p = 2.33$ )

**11.05.2016**

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