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**INSTITUTE OF INDIGENOUS MEDICINE, UNIVERSITY OF COLOMBO, RAJAGIRIYA**  
**BAMS LEVEL II – SECOND SEMESTER EXAMINATION – JUNE 2018**  
**RESEARCH METHODOLOGY AND BIO STATISTICS - II**  
**COURSE CODE – SW 2201**

**Time: 1 hour**  
**2.00 p.m. – 3.00 p.m.**

**Answer all questions.**

**Index No**

**Structured Questions**

01 a) What is the definition of standard error of the mean (SEM)? **(03 Marks)**

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b) Write the formula of the standard error of the mean (SEM). **(03 Marks)**

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c) Find SEM of a sample distribution whose standard deviation is 36 and sample size is 64. **(06 Marks)**

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## Essay Questions

01 a) Explain the region of acceptance?

(10 Marks)

b) To test the spending habits of female students at the college, a sample of 5 female students was randomly selected and asked as how much money nearest to rupees did they spend on their cloths per month.

Their responses are recorded below;

1000, 700, 500, 800, 500

i) Calculate sample mean and sample standard deviation.

(20 Marks)

ii) Assuming that the population is normally distributed, constructed a 95% confidence interval for the true average amount in rupees spent by all the female students at the college per month.

(At 95% with df (4), t- table value = 2.77)

(30 Marks)

13.08.2018

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