



Eastern University, Sri Lanka
First Year Second Semester Examination in Science 2008/2009
(External Degree)
EXTCC 106: Biostatistics

Answer all questions

Allowed Time: 1 hr

1. a) Describe the following terms,
 - i) Standard Normal Distribution Curve
 - ii) Degree of Correlation

 - b) Find the probability of having z value for the following,
 - i) less than 1.2 [$P(z < 1.2)$]
 - ii). between 0 and 1.3 [$P(0 < z < 1.3)$]
 - iii) greater than 1.4 [$P(z > 1.4)$]

 - c) Briefly explain the Pictorial Presentation in Biostatistics with the suitable illustrations.
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2. a) Give the steps involved in drawing a best fit line in simple linear regression.

 - b) Compute the mean, median, standard deviation and variance for the following data set. 17, 21, 33, 30, 29, 15, 18 and 32

 - c) The mean diameter of 25 lemon fruits is 4.38 mm and standard deviation is 0.06 mm. Find the 95% confidence limits for the actual mean diameter.
