



SLIATE

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide in Act No. 29 of 1995)

Higher National Diploma in Information Technology

Second Year, Second Semester Examination – 2015

IT 4303- Software Quality Management

Instructions for Candidates:

Answer Any Four (04) Questions.

All Questions Carry Equal Marks.

No. of questions : 05

No. of pages : 02

Time : 02 Hours

1)

- I. Define the term Quality Management? (4 Marks)
- II. Briefly describe the activities of Quality Management? (5 Marks)
- III. What is software standard? (6 Marks)
- IV. What is Product and Process based quality. (10 Marks)

(Total: 25 Marks)

2)

- I. List 5 software quality attributes. (5 Marks)
- II. Describe the standard development Process. (6 Marks)
- III. List three (03) types of documentation standards. Briefly Explain each. (6 Marks)
- IV. Explain the importance of software quality standards. (8 Marks)

(Total: 25 Marks)

- 3)
- I. What is a Quality Plan and state the characteristics of a quality plan. (5 Marks)
 - II. Briefly describe the quality review functions. (6 Marks)
 - III. A quality metric should be a predictor of product quality. Define the classes of product metric (6 Marks)
 - IV. Describe software quality measurements and metrics. (8 Marks)
- (Total: 25 Marks)

- 4)
- I. Describe the following terminologies.
 - a) Hazard
 - b) Vulnerability
 - c) Exposure(6 Marks)
 - II. Describe what a Configuration Management Plan is. (7 Marks)
 - III. Briefly explain what is change control board? (6Marks)
 - IV. Define the followings.
 - a). Version
 - b). Variant
 - c.) Release(6 Marks)
- (Total: 25 Marks)

- 5)
- I. Define the term Risk and explain the characteristics of a risk (5 Marks)
 - II. Describe any three (03) categories of risk. (6 Marks)
 - III. Differentiate Proactive and Reactive risk strategies (4 Marks)
 - IV. Explain five (05) general requirements of all software documentation. (10 Marks)
- (Total: 25 Marks)