



EASTERN UNIVERSITY, SRI LANKA
DEPARTMENT OF MATHEMATICS

EXTERNAL DEGREE EXAMINATION IN SCIENCE - 2008/2009

SECOND YEAR, SECOND SEMESTER (April /May, 2016)

EXTCS 205 – SOFTWARE ENGINEERING PRINCIPLES

REPEAT

Answer all questions

Time allowed: 1 Hour

1. Briefly explain the following terms:
 - a. Software,
 - b. Well Engineered Software,
 - c. Software Process.
2. List the fundamental process activities of software engineering.
3. Name four software development life cycle models.
4. Describe the different levels of **software testing**.

1. List three design quality attributes.
2. What do you understand by **balancing** in a data flow diagram?
3. Consider the following scenario:

Youth Star is an association that distributes T-shirts and caps at discount price to their club members. When an order processing clerk receives an order form, he or she verifies that the sender is a club member by checking the Member file. If the sender is not a member, the clerk returns the order along with a membership application form.

If the customer is a member, the clerk verifies the order item data by checking the item file. Then the clerk enters the order data and saves it to the Daily Orders file.

The clerk also prints an invoice and shipping list for each order, which are forwarded to the Order Fulfillment department to process there.

- a. Draw a **context diagram** for the Youth Star Association.
- b. Draw the **level-0 DFD** for the activities described.