

THE OPEN UNIVERSITY OF SRI LANKA  
DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE  
B.Sc. DEGREE PROGRAMME 2012/2013  
**NO BOOK TEST (NBT)**  
**CSU3277: SOFTWARE ENGINEERING**  
DURATION: ONE AND HALF HOURS ONLY (1.5 HRS)



Date: 27<sup>th</sup> March, 2013

Time: 4.00 pm – 5.30 pm

Answer ALL Questions.

**Q1.**

(a).

- i. Describe *software crisis* that encountered during the early days in developing computer software.
- ii. What are the six (06) *software qualities*? Briefly describe four (04) of them.
- iii. Briefly describe four types of *information systems*. How do they differ from each other?

(b).

- i. What is the *system development methodology*? Why is it used?
- ii. State two (02) different types of *System Development Life Cycles (SDLC)* and identify the phases of them. Briefly describe one of them.

**Q2.**

**A description on offering discounts of an Airline Ticketing System is given below;**

An airline offers flights only in Sri Lanka and Asia. Under special conditions a discount is offered; a discount with respect to the normal airfare. Passengers older than 18 years with destinations in Sri Lanka are offered a discount of 20%, if the departure is not on a Monday or Friday. If the passengers stay at least 6 days at the destination, an additional discount of 10% is offered. For destinations outside Sri Lanka, passengers are offered a discount of 25%, if the departure is not on a Monday or Friday. Passengers older than 2 years but younger than 18 years are offered a discount of 40% for all destinations. Children under 2 years travel for free.

**Prepare a decision table of the above case.**