The Open University of Sri Lanka

B. Sc. Degree program - Level 05

Closed Book Test 2009/2010

CSU 3277: Software Engineering

Duration: One and half hours

Date 04.11.2009

Time: 4.00 p.m. to 5.30 p.m.

Answer ALL Questions.

1.

- i. Compare and contrast between the two logic modeling techniques decision tables and decision trees.
- ii. One of the bookstores gets discounts on books acquired from publishers. This is done through a publisher discount policy known to the bookstores in advance. The discount policy is illustrated below.

Add up the number of copies per book title

IF order is from bookstore and – IF ORDER is for 6 copies or more per book title

THEN: Discount is 25%

ELSE (order is for fewer than 6 copies per book title)

SO: no discount is allowed

ELSE (order is from libraries or individual customers)

SO – IF order is for 50 copies or more per book title

Discount is 15%

ELSE IF order is for 20 to 49 copies per book title

Discount is 10%

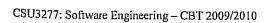
ELSE IF order is for 6 to 19 copies per book title

Discount is 5%

ELSE (order is for less then 6 copies per book order)

SO: no discount is allowed.

- a. Represent the above information in a Decision Table.
- b. Represent the above information in a Decision Tree.



2.

i. Convert the following Decision table into Structured English.

Car / Discounts	1	2	3	4	5	6	7	8
2 YEAR AND MORE	Y	Y	Y	Y	N	N	N	N
JAPANESE MAKE	Y	Y	N	N	Y	Y	N	N
ACCIDENT	Y	N	Y	N	Y	N	Y	N
DISCOUNT 5%		X		<u> </u>		X		
DISCOUNT 7.5%				X	X			X
DISCOUNT 10%			X				X	
CAR CLEANING KIT	X			X				

ii. Compare and contrast data flow diagrams and structure charts.

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