MAD 3125 - S2018 E Mid Term Test (25%)

Date: Thursday, 28th June 2018 Time: 2 Hr.

Application Name: StudentID_OntarioElectricityBill

Screens & Specification

1. Splash screen with appropriate theme Marks (10)

2. Login Screens design Marks (10)

a. Email ID and Password with validation (user1@oeb.com/s3cr3t)

3. Create class **ElectricityBill** containing following fields

1) Customer Name

- 2) Account Number
- 3) Meter Number
- 4) Monthly Usage
- 5) Price Plan
- 6) Off Peak
- 7) Mid Peak
- 8) On Peak
- 9) OESP Credit
- **10)** Contract Rate
- 11) Total Bill Price
- 4. Electricity Bill Information Entry Screen

Marks (30)

Marks (10)

Your monthly usage:	750	kWh	
Select your pricing plan: *	⊙Time-of-us	e Pricing OTiered Pricing	
Adjust your consumption: (optional)	Off-Peak: 65	%	
	Mid-Peak: 17	%	
Step 2: Enter your Ontario E amount (if applicable	•	% upport Program (OESP)	credi
Enter your Ontario E	lectricity S e)	upport Program (OESP)	credi
Enter your Ontario E amount (if applicable Your OESP monthly credit Optional:	lectricity S e) (e.g. 30.00):\$	upport Program (OESP)	

6. Electricity Bill Details Screen

Marks (30)

SAMPLE MONTHLY BILL STA Algoma Power Inc.		
Account Number: 000 000 0 Meter Number: 0000000	000 0000	
Your Electricity Charges		
Electricity		
Off-Peak @ 6.5 ¢/kWh	31.69	
Mid-Peak @ 9.4 ¢/kWh	11.99	
On-Peak @ 13.2 ¢/kWh	17.82	
Delivery	53.11	
Regulatory Charges	3.44	
Total Electricity Charges	\$118.05	
HST	15.35	
8% Provincial Rebate*	(-\$9.44)	
Total Amount	\$123.95	

Account Number: 000 000 00 Meter Number: 0000000	
Your Electricity Char	ges
Electricity	
YOU ARE BUYING YOUR ELECTRICITY FROM: [ENERGY RETAILER NAME] *	
750 kWh @ 5.5 ¢/kWh	41.25
Global Adjustment	41.08
Delivery	49.02
Regulatory Charges	3.19
Total Electricity Charges	\$134.54
HST	17.49
8% Provincial Rebate	(-\$10.76)
Total Amount	\$141.26

Rules to calculate electricity bill:

❖ For Tiered rates

How much	electricity	y you use
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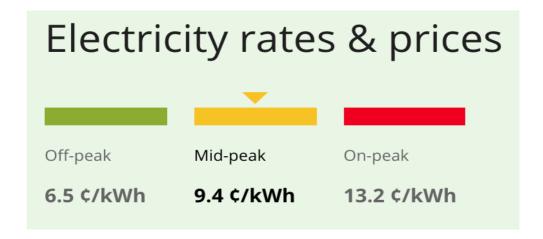
Rate (¢ per kWh)

Up to 600 kWh	7.7

More than 600 kWh

8.9

❖ Time-of-use



❖ Delivery Charges

2% of Total monthly usages kWh

❖ Regulatory Charges

3.2% of Total monthly usages kWh

❖ Global Adjustment

80% of Total monthly usages kWh

Note:

- ✓ Appropriate screen design and data validation
- ✓ Upload ZIP file on Moodle

Wish You All the Best