

PART A																										
QUESTION	SOLUTION	MARKS																								
1	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">20-29</td> <td style="width: 25%;">Feb</td> <td style="width: 15%;">9</td> <td style="width: 45%;"></td> </tr> <tr> <td>1-31</td> <td>March</td> <td>31</td> <td></td> </tr> <tr> <td>1-30</td> <td>Apr</td> <td>30</td> <td></td> </tr> <tr> <td>1-31</td> <td>Mei</td> <td>31</td> <td></td> </tr> <tr> <td>1-15</td> <td>Jun</td> <td>15</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right; border-top: 1px solid black;">116 days ✓✓</td> <td></td> </tr> </table> $S = P(1+rt) ✓$ $= 6,000 \left[1 + (0.08) \left(\frac{116}{360} \right) \right] ✓✓✓✓✓✓$ $= RM6,154.67 ✓✓$	20-29	Feb	9		1-31	March	31		1-30	Apr	30		1-31	Mei	31		1-15	Jun	15		116 days ✓✓				5
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2	$H = S(1 - dt) ✓✓$ $3,500 = S \left[1 - (0.085) \left(\frac{200}{360} \right) \right] ✓✓✓✓✓✓$ $S = RM3,673.47 ✓✓$	5																								
3	$S = 64555.53; P = 40000; m = 4; k = 0.055;$ $S = P(1+i)^n ✓$ $64555.53 = 40000 \left(1 + \frac{0.055}{4} \right)^{4t} ✓✓✓✓✓✓$ $\frac{64555.53}{40000} = (1.01375)^{4t}$ $\log \left(\frac{64555.53}{40000} \right) = \log(1.01375)^{4t} ✓✓$ $t = 8.8 \text{ years or } 8.76 \text{ years } ✓✓$	5																								

<p>4</p>	<p>$R = 677; m = 12; k = 0.066; t = 8$</p> <p>Balance to be settled is $(8 \times 12) - 66 = 30$ months ✓✓</p> $A_{30} = R \left[\frac{1 - (1+i)^{-n}}{i} \right] \quad \checkmark$ $A_{30} = 677 \left[\frac{1 - \left(1 + \frac{0.066}{12}\right)^{-30}}{\frac{0.066}{12}} \right] \quad \checkmark \checkmark \checkmark \checkmark \checkmark$ <p>$= \text{RM}18675.71 \quad \checkmark \checkmark$</p>	<p>5</p>
<p>5</p>	<p>$DP = 10\% \times 350000$</p> <p>$= 35000 \quad \checkmark \checkmark$</p> <p>$B = \text{RM}350,000 - 35,000 = \text{RM}315,000 \quad \checkmark \checkmark$</p> <p>$I = B \cdot r \cdot t \quad \checkmark \checkmark$</p> <p>$I = (315,000)(0.045)(9) \quad \checkmark \checkmark \checkmark$</p> <p>$= \text{RM}127,575 \quad \checkmark \checkmark$</p>	<p>5</p>
<p>6</p>	<p>$NP = L - D$</p> <p>$= 850 - 244.35$</p> <p>$= \text{RM}605.65 \quad \checkmark \checkmark$</p> <p>$NP = L(1 - d_1)(1 - d_2) \quad \checkmark \checkmark$</p> <p>$605.65 = 850(1 - 0.25)(1 - x) \quad \checkmark \checkmark \checkmark \checkmark \checkmark$</p> <p>$x = 5\% \quad \checkmark \checkmark$</p>	<p>5</p>

<p>7</p>	$S = C + M \checkmark$ $S = 3000 \checkmark + 0.45 S \checkmark \checkmark \checkmark \checkmark$ $S - 0.45S = 3000 \checkmark \checkmark$ $0.55S = 3000 \checkmark$ $S = \frac{3000}{0.55} \checkmark$ $RM X = S = RM5454.55 \checkmark \checkmark$	<p>5</p>
<p>8</p>	<p>C=RM120,000 S=RM50,000 , n=8</p> $r = 1 - \sqrt[n]{\frac{S}{C}}$ $r = 1 - \sqrt[8]{\frac{50000 \checkmark}{120000 \checkmark}} \checkmark \checkmark \checkmark$ $r = 1 - 0.89634 \checkmark$ $r = 0.103658 \checkmark$ $BV_4 = C(1-r)^n$ $BV_4 = 120000(1-0.10366)^4 \checkmark \checkmark \checkmark$ $BV_4 = RM77459.08 \checkmark \checkmark$	<p>5</p>
<p>TOTAL MARKS (PART A) = 40 MARKS</p>		

PART B		
QUESTION	SOLUTION	MARKS
1a)	<p>i) Single discount equivalent to trade discount given PL0 1 $d = [1 - (1 - d_1)(1 - d_2)]$ ✓✓ $d = [1 - (1 - 0.12)(1 - 0.08)]$ ✓✓ $= 19.04%$ ✓✓</p> <p>ii) Last day to receive 5% cash discount PL0 1 Invoice date +15 days ✓✓ 12/11/2019 + 15 days = 27/11/2019 ✓✓</p> <p>iii) Amount to be paid on 25 November 2019 PL0 1 Payment on 25/11/2019 entitle to get 5% cash discount ✓✓ NetPayment = $LP(1 - d_1)(1 - d_2)$ ✓ NetPayment = $[150 * 75](1 - 0.1904)(1 - 0.05)$ ✓✓✓ NetPayment = RM8652.60 ✓✓</p>	<p>3</p> <p>2</p> <p>4</p>
1b)	<p>i) SP for a pen = $\frac{150}{20} = RM7.50$ ✓✓ PL0 1 $SP = C + OE + NP$ ✓✓ $7.5 = C + 2.3 + 0.3C$ ✓✓✓✓✓✓ $1.3C = 5.2$ $C = RM4$ ✓✓</p> <p>ii) BEP = $C + OE$ ✓✓ = $4 + 2.3$ ✓ PL0 3 = RM6.30 per pen ✓</p> <p>BEP for a box = $6.3 \times 20 = RM126$ ✓✓</p> <p>Therefore, NP = New SP – BEP = $120 - 126$ ✓✓ = - RM6 (loss) ✓✓</p>	<p>6</p> <p>5</p>
TOTAL MARKS (Q1) = 20 MARKS		

<p>2a) p203</p>	<p>3 Jun 2018 – 30 Jun 2018 = 27 ✓ Jul = 31 Aug = 31 <u>1 Sept 2018 – 11 Sept 2018 = 11</u> ✓ <hr/> 100 ✓ Discounted term = 100 – 55 = 45 days ✓ $Pr = S(1 - dt) ✓✓$ $7500 = S \left(1 - 0.07 \times \frac{45}{360} \right) ✓✓✓✓✓✓✓$ $S = RM7566.20 ✓✓$</p>	<p>6</p>
<p>2b) p203</p>	<p><u>Next 4.5 years</u> $S = P(1 + i)^n ✓✓$ $5949.60 = P \left(1 + \frac{0.0415}{4} \right)^{(4.5 \times 4)} ✓✓✓✓✓✓✓$ $P = RM4940.84 ✓✓$ <u>First 2.5 years</u> $S = P(1 + i)^n ✓✓$ $4940.84 = X \left(1 + \frac{0.0375}{6} \right)^{(2.5 \times 6)} ✓✓✓✓✓✓✓$ $X = RM4500 ✓✓$</p>	<p>8</p>

