# **Fully-Worked Solutions**

## **PRACTICE 3**

#### Section A

1 D 2 D 3 C 4 I = Prt $= \text{RM15}\ 000 \times \frac{2}{100} \times 3$ = RM900Total saving = RM15 000 + RM 900 = RM15900Answer: C **5** Total interest =  $2.5\% \times 4 = 10\%$ RM8 800 =  $P \times 1.10$  $P = \frac{\text{RM8 800}}{1.1}$  $= RM8\ 000$ Answer: **B** 6 D 7 Total amount of dividend  $= 10\ 000 \times 8\ cents$  $= 80\ 000\ cents$ = RM800Answer: C 8 Average profit =  $\frac{2.4}{100} \times \text{RM5 000}$ = RM120Total savings = RM8 000 + RM120 + RM80 = RM8 200Answer: D 9 MV = Matured value P = Principal $= RM15\ 000$ r = Annual interest rate 4 = -100 = 0.04n = Number of periods the interest is compounded per year = 12 6 = 2t = Number of years = 5  $MV = P\left(1 + \frac{r}{n}\right)^{nt}$ 

 $= 15\ 000\left(1 + \frac{0.04}{2}\right)^{2 \times 5}$ = RM18 284.92 Answer: C 10 Dividend =  $12\,000\,\text{unit} \times \text{RM}0.50\,\text{per unit}$  $= RM6\ 000$ Answer: B 11 Downpayment = 10% × RM85 000  $=\frac{10}{100}$  × RM85 000 = RM8.500Balance payment = RM85 000 - RM8 500 = RM76 500 Total interest. I = Prt $= \text{RM76} 500 \times \frac{3.5}{100} \times 6$ = RM16 065 Total repayment = RM76 500 + RM16 065 = RM92 565 Monthly instalment =  $\frac{\text{RM92 565}}{72}$ = RM1 285.63 Answer: **B** 12 Balance payment = RM4 800 - RM800  $= RM4\ 000$ Total interest, I = Prt $= RM4\ 000 \times \frac{3.5}{100} = RM450$ Total repayment  $= RM4\ 000 + RM450$ = RM4 450Monthly instalment =  $\frac{RM4450}{2}$ 30 = RM148.33Answer: B 13 D 14 Total interest = RM708.33 × 20 × 12 - RM100 000 = RM69 999.20 Annual interest =  $\frac{RM69\ 999.20}{RM69\ 999.20}$ 20 = RM3 499.96 Interest rate =  $\frac{\text{RM3} 499.96}{\text{RM3} 499.96} \times 100\%$ RM100 000 = 3.49996%= 3.50%Answer: A

# Section B

<b>1</b> (a)							
	S	hanti bought an apartment using a overnment loan.	•			Fixed depos	it account
(b)				$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$			
	A o	zam saves RM9 000 in a bank for btain high interest.	a year to			Savings acc	ount
(c)					$\mathbf{X}$		
	R	RM14.90 per unit on Bursa Malaysia.				Real estate	
(d)							
	di	rrine saves money in a bank and s raw her money through ATMs.	she can with-			Shares	
<b>2</b> (a)		Types of saving         High interest         Low interest		w interest	No interest		
	(i)	Fixed deposit	$\checkmark$				
	(ii)	Current account				1	
(b)		Types of saving and investmen	nt High ret	High return		High liquidity	
	(i)	Fixed deposit			1		
	(ii)	Gold investment	1	$\checkmark$			
<b>2</b> (a)							
	(i)	Credit • Money that has been borrowed but h			as not been se	ttled.	
		· · · · · · · · · · · · · · · · · · ·	Money that can be borrowed.				
	(ii)	Debt	Money t	hat can be b	orrowed.		
(b)	(ii)	Debt • p incurring new debts.	Money t	hat can be b	orrowed.		✓
(b)	(ii) Sto Tra	Debt p incurring new debts. nsfer credit card balances from a b	Money t	hat can be b	orrowed.		\ \ \

The surplus money is more profitable if it is kept in fixed deposits rather than used to pay off debts.

## Section C

1 (a) Income distribution

= RM15 000 × 
$$\frac{6.5}{100}$$
 ×  $\frac{9}{12}$   $I = Prt$   
= RM731.25  
(b)  $MV = P\left(1 + \frac{r}{n}\right)^{nt}$   
= 10 000 $\left(1 + \frac{0.04}{4}\right)^{14}$   $n = 4, t = 3.5$   
 $\therefore nt = 14$   
= RM11 494.74

(c) (i) Expected monthly rental

= RM250  $\times$  20

- (ii) Total returns
  - = RM520 000 RM450 000 + RM5 000 × 12 = RM130 000

Return on investment = 
$$\frac{\text{RM130 000}}{\text{RM450 000}} \times 100$$
$$= 28.89\%$$

- 2 (a) Credit card users need to settle the debt payment within the period stipulated by the bank to enjoy interest free period.
  - Pay the outstanding balance listed on the credit card statement.
  - The minimum amount paid by the credit card holder provides opportunity for the bank to charge interest on the balance and may also incur late payment charge.
  - Pay within the cash discount period for payment of debts.
  - (Choose two out of four choices) (b) P = RM12,000, r = 3.5%

b) 
$$P = RM12 000, r = 3.5\%$$
  
 $t = 3$  years,  $n = 2$ 

$$MV = P \left(1 + \frac{r}{n}\right)^{nt}$$
  
= 12 000  $\left(1 + \frac{0.035}{2}\right)^6$   
= RM13 316.43  
 $P = RM13 316.43, r = 4\%$   
 $t = 3 \text{ years } 9 \text{ months}$   
=  $\frac{15}{4}$  years,  $n = 4$ 

 $MV = P\left(1 + \frac{r}{n}\right)^{nt}$  $13\ 316.43\left(1+\frac{0.04}{4}\right)^{15}$ = RM15 459.96 (c) Balance = Cash price – Down payment = RM1 200 - RM200  $= RM1\ 000$ Interest charged = Prt $= 1\ 000 \times 0.08 \times \frac{10}{12}$ = RM66.67 Total money repaid = Cash price + Total interest charged  $= 1\ 000 + 66.67$ = RM1 066.67 Monthly instalment =  $\frac{\text{Total money repaid}}{\text{Number of payments}}$ = 1066.67 10 = RM106.67