

2cb) Rm 20 000 for 4 years six months at 11% per annum

$$I = Prt$$

$$= Rm\ 20\ 000 \times 11\% \times 1 \qquad = Rm\ 20\ 000 \times 11\% \times \frac{6}{12}$$

$$= 2200 \qquad = Rm\ 1100$$

$$= Rm\ 2200 \times 4\ \text{years}$$

$$= Rm\ 8800$$

ii) Simple Amount for the following investment

$$S = P(1 + rt)$$

$$= 20000(1 + 0.11 \times \frac{9}{12})$$

$$= Rm\ 29\ 200$$

total = Rm 8800 + Rm 1100

$$= Rm\ 9900$$

(d) Rm 7 000 x 45 months at 8% per annum
 ↓
 (3 years 9 months)

$$= Rm\ 7000 \times \frac{8}{100} \times 3 \qquad = Rm\ 7000 \times \frac{8}{100} \times \frac{9}{12}$$

$$= Rm\ 1680 \qquad = Rm\ 420$$

ii) ~~S = P(1 + rt)~~

$$S = P(1 + rt)$$

$$= 7000(1 + 0.08 \times 3.75)$$

$$= Rm\ 9100$$

Total = Rm 1680 + Rm 420

$$= Rm\ 2100$$

3cc) Calculate the exact and ordinary number of days

1) From 19 November 2018 to 1 May 2019

November	30 - 19 = 11
Disember	31
January	31
February	28
March	31
April	30
May	1

$$I = 1000 \times 0.1 \times \frac{163}{360} = 52.61\%$$

$$45.27\%$$

163 days
 163

88 days

$$I = \text{RM } 5000 \times 0.08\% \times \frac{88}{360}$$
$$= 97.78\% \quad \times$$

6) Four years ago, An Chong deposited RM 6800 in an account that gave 4.55% simple interest per annum. Find

a) the total interest earned today

$$I = prt$$

$$I = \text{RM } 6800 \times 4.55\% \times 4$$

$$= \text{RM } 1237.6$$

$$= \text{RM } 1237.6$$

b) the accumulated amount today

$$A = P + I = \text{RM } 6800 + \text{RM } 1237.6$$

$$= \text{RM } 8037.6$$

- 9) A loan for 36 days was repaid by a sum of RM 7368.95. If the loan was charged a simple interest rate of 6% per annum, find the original amount.

$$\frac{\text{RM} 7368 \times 6}{100} \times \frac{36}{360} = \text{RM} 44.2137$$

$$\begin{aligned} \text{RM} 7368.95 - \text{RM} 44.2137 \\ = \text{RM} 7324.7363 \end{aligned}$$

$$7368 = P \left(1 + \frac{0.06 \times 36}{360} \right)$$

$$= \text{RM} 7324.93$$

- 15) What sum of money will become RM 15 000 in three years at a simple interest rate of 8% per annum?

$$\text{RM} 15000 = x \left(1 + \frac{0.08 \times 3}{100} \right)$$

$$\text{RM} 15000 = x (1 + 0.08(3))$$

$$= \text{RM} 12096.8$$

14) RM x invested in a bank for three years at a simple interest rate of 6% accumulates to RM10 000. Find x

$x =$

$$\text{RM } 10\,000 = P [1 + (6\% \times 3)]$$

$$\text{RM } 10\,000$$

$$\underline{1.18}$$

$$= \text{RM } 8475.5762$$

71) A debt of RM 720 on 30 November 2019 would amount to RM 750 on 20 February 2020. Find the rate of ordinary simple interest being charged using approximate time

Disember 30

January 30

~~RM 720 x~~

February 20

80 days x

$$\frac{\text{RM } 720 \times x \times 80}{360} = 30$$

$$160x = 30$$

$$x = 0.1875$$

$$x = 18.75\%$$

Ref:

Date:

4) b) On 4 May, RM 5000 was saved at 8% per annum simple interest. Find the interest earned on 15 July of the same year using

i) Exact time and ordinary Approximate time and ordinary

May = 27

72

Jun 30

July = 15

72

$$I = \text{RM } 5000 \times 8\% \times \frac{72}{360}$$

$$= \text{RM } 80$$

$$\text{RM } 5000 \times 8\% \times \frac{71}{360}$$

$$= \text{RM } 78.89$$