



**UNIVERSITI TEKNOLOGI MARA
QUIZ**

COURSE	:	BUSSINESS MATHEMATICS
COURSE CODE	:	MAT402
EXAMINATION	:	MAC 2022 - JULY 2022
TIME	:	1 HOUR

INSTRUCTIONS TO CANDIDATES

1. This question paper consists of TWO (2) questions.
2. Answer ALL the questions.

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This test paper consists of 2 printed pages

QUESTION 1

- a) Given that the sequence 71, 65, 59, ... , -13. Calculate
- i. The number of terms in the sequence (3 marks)
 - ii. The sum of the sequence. (2 marks)
- b) The fourth term and seventh term of a geometric sequence are $27/16$ and $729/1024$ respectively. Find the first term and the common ratio. (5 marks)
- c) A high-rise building provides shop-lots to be rented. Rent is cheaper on the upper floors of shop space. The ground, first, and second floors rent for RM4925, RM4625, and RM4325 per month, respectively. How much is the rent on the eleventh floor? (5 marks)

QUESTION 2

- a) Sarah deposited RM 10500 four years ago in an account that gave 5.5% simple interest per annum. Find
- i. The accumulated amount today (2 marks)
 - ii. The total interest earned today (2 marks)
- b) Mary invested in an investment fund that offered a simple interest rate of 6% per annum. After 5 months, the investment was worth RM8,200. Find the principal amount of the investment. (5 marks)
- c) Danial borrowed RM 50000 at 6.9% simple interest rate per annum on 15 March 2021. If he was charged RM 1725 simple interest, find the date he settled the loan using approximate time and ordinary simple interest. (6 marks)