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| Kingdom of Saudi Arabia  Royal Commission for Jubail and Yanbu  Yanbu Education Division  Yanbu English Language & Prep Year Institute |  |

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| **General Studies Department** |
| 2024 – 2025 (Semester 2) |
| MATH 002 |
| Quiz 4 |
| |  |  |  |  | | --- | --- | --- | --- | | **Assessment’s Due Date** | Tuesday, April 29, 2025 | **Session** | Morning Session | | **Assessment’s Start Time** | 08:20 AM | **Assessment’s End Time** | 09:00 AM | | **Student’s Name** |  | | | | **Student’s ID:** |  | **Section:** | 7 | |
| **Invigilator Signatur**e: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **FOR INSTRUCTOR’S USE ONLY** | | | | **GENERAL INSTRUCTIONS** | | **CLO.** | **Q. No.** | **MAX MARK** | **MARKS OBTAINED** | * Read and follow the instructions for each question carefully. * This paper has 06 questions and 02 pages (excluding the cover page). * Keep your mobile phone switched off during the examination. * Use of dictionaries is not allowed. * Do not use pencil for answering. * You may use only non-programmable calculator. * Borrowing of calculator is not allowed. | | **2.5** | **01** | **03** |  | | **2.5** | **02** | **04** |  | | **2.5** | **03** | **03** |  | | **2.5** | **04** | **04** |  | | **2.5** | **05** | **03** |  | | **2.5** | **06** | **03** |  | |  |  |  |  | | **TOTAL MARKS** | | **20** |  | |

**FOR INSTRUCTOR’S USE ONLY**

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|  | | Date: | Signature: |
| Marked by: | **Ms. Saira Arif** | Tuesday, April 29, 2025 |  |
| Reviewed by: |  | Thursday, May 1, 2025 |  |

**Questions**  **Marks**

**Q1. Determine whether each ordered pair is a solution of the given system of linear equations.**

**(a) (b) [3]**

Solution:

**Q2. Solve the given system of linear equations by the method of substitution: [4]**

Solution:

**Q3.** **Write the system of linear equations represented by the augmented matrix: [3]**

Solution:

**Q4.** **If possible, find (a) and (b) [4]**

Solution:

**Q5. Solve for in the equation, where , and** . **[3]**

Solution:

**Q6. Write the augmented matrix:**

**What is the dimension of the augmented matrix? [3]**

Solution: