|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | **Student’s Name** | **Student’s ID** | **Group Number** | **Lecturer’s Name** | |  |  |  |  | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Question Number** | **I** | **II** | **III** | **IV** | **Total** |
| **Mark** |  |  |  |  |  |

|  |
| --- |
| **Question I:**  **Choose the correct answer:**   1. **If then** 2. **(b) (c) (d) None of the previous** |
| 1. **(b) (c) (d) None of the previous** |
| 1. **The best substitution to solve the integral is** 2. **(b) (c) (d) None of the previous** |
| **Question II:**   1. **Prove that if is a continuous function on and then.** 2. **For , find , then prove that**     **Question III:**   1. **Find the area under the curve on using the limit of Riemann sum.** 2. **Without solving the integral prove that**   **Question IV:**   1. **Find the value of that satisfies the conclusion of the Integral Mean Value Theorem:** 2. **Evaluate the following integrals:** 3. **where**   **Good Luck☺** |