|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |  |  |
| --- | --- | --- | --- |
| **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☺** |