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

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

|  |
| --- |
| **Question I: A. Choose the correct answer****(1) If and are both antiderivatives of the same function and , then can be**1. **(b)**

**(c) (d)**  |
|  **(2) If then is****(a ) (b)** **(c) (d)**  |
| 1. **If and then equals**

**(a) 3 (b)-3** **(c) (d) 0****B. Show that without computing the integrals.****Question II: Compute the area between the curve of and the axis on using the limit of Riemann sum and right-end points.****Question III: A. Prove the Integral Mean Value Theorem: if is a continuous function on then there is a number for which .****B. Find the value of that satisfies the Integral Mean Value Theorem for**  **on [0,3].****Question IV: Find  for**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Question V: Compute the following integrals**1.
 |
| 1.

**(c)** **for**  |

Good Luck ☺