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| **Student’s Name** | **Student’s ID** | **Group Number** | **Lecturer’s Name** |
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| **Question Number** | **I** | **II** | **III** | **Total** |
| **Mark** |  |  |  |  |

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| **Question I: A. Choose the correct answer**   1. **If  , then**   **(a) (b)**  **(c) (d) None of the previous** |
| 1. **equals**   **(a) (b)**  **(c) (d)None of the previous** |
| 1. **equals** 2. **(b)**   **(c) (d) None of the previous**  **B. Find the value of that satisfies the integral mean value theorem for  on**  **C. Show that  and  are both antiderivatives of  then find the value of for which** |
| **Question II: A. Compute the area under the curve of on  using the limit of Riemann sum** |
| **B. Without evaluating the integrals, show that** |
| **Question III: A. Compute for** |
| **B. Compute the following integrals**  **(a)**  **(b)** |
| **(c)** |

Good Luck