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| **Name:**  **Sequence Number:**  **Teacher's Name:**  **Section:**  **Note: Only simple calculator is permitted** |

***Note*: *The exam consists of 6 pages***

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

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| --- | --- | --- | --- | --- |
| Question Number | 1 | 2 | 3 | 4 |
| Answer |  |  |  |  |

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| Question I:  A. Choose the correct answer, then fill in the table above:  (1) If , then the most general antiderivative of is  (a) (b)  (c) (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (2)  (a) (b) 8  (c) (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (3)  (a) (b)  (c)  (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| (4) If, then equals  (a) (b) -3  (c) (d) None of the previous  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Question II**:**  Find the area under the curve , from to by taking the limit of the Riemann sum and the right-handed endpoints. |
| Question III:  A. Without solving the integral prove that  B. Find the value of that satisfies the conclusion of the Integral Mean Value Theorem for  on |
| Question IV:  Evaluate the following integrals:  (i)      (ii)    (iii)      (iv)  (v) Use Trapezoidal rule to find  Good Luck☺ |