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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 thatB. 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☺ |