**King Saud University Math 106**

**Science and Medical Studies Section for girls Second Term 1430H**

**College of Science First Midterm Exam**

**Department of Mathematics 1 1/2 Hours**

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| **Name:** | **Student No.:** |
| **Section No.:** | **Teachers name:** |
|  |
| **Question No.** | **I** | **II** | **III** | **IV** | **Total** |
| **Mark** |  |  |  |  |  |
| **QUESTION I** |
| a. Find the value of  that satisfies the Mean Value Theorem for  on the interval . |
|  |
| b. Find  for the function . |
| **QUESTION II** |
| a. Find  where . |
|  |
| b. Use the properties of the integral to prove the following inequality without actually evaluating the integrals, |
| **QUESTION III** |
| Compute using Riemann sums and right end points? |
| **QUESTION IV****Evaluate the following integrals** |
| a. . |
|  |
| b. . |
|  |
| c. . |
|  |
| d. . |

 GOOD LUCK ☺