**Math 111**

**Second midterm examination**

**Second semester, 1430-1431H**

**Time: 1 ½ Hours**

**Department of Mathematics**

**College of Sciences**

**King Saud University**

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| **Name:** | **Sequence No.** |
| **Student No.** | **Section No.** |

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

**QUESTION I:**

**Choose the correct answer**

|  |
| --- |
| 1. . The formula  is equal to :   i.1 ii. iii. Zero. iv. None of the previous. |
|  |
| 1. is equal to:   i. ii.  iii. iv. None of the previous. |
|  |
| 1. . If , then  is equal to:   i. ii.  iii. iv. None of the previous. |
|  |
| 1. is equal to:   i.  ii.  iii.  iv. None of the previous. |
| **QUESTION II**  **Evaluate the following integrals** |
| 1. . |
|  |
|  |
|  |
|  |
|  |
| **QUESTION III** |
| 1. Show that: |
| 1. Find  if |
|  |
| 1. . Evaluate the integral |
|  |
| 1. Find the partial fractions decomposition ( do not integrate) of the function |

Good Luck