**Math 106**

**Second midterm examination**

**Second semester, 1430H**

**Time: 1 1/2 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 No.** | **I** | **II** | **III** | **Total** |
| **Mark** |  |  |  |  |

**QUESTION I:**

**Choose the correct answer**

|  |
| --- |
| 1. The formula  is equal to :

i.  ii.1 iii. Zero. 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. |
|  |
| 1. If , then  is equal to:

i. ii. iii.  iv. None of the previous. |
| **QUESTION II****Evaluate the following integrals** |
| 1.
 |
|  |
|  |
|  |
| **QUESTION III** |
| 1. Find the partial fractions decomposition ( do not integrate) of the function
 |
| 1. Evaluate the integral
 |
|  |
| c. Evaluate the integral  |
|  |
| 1. Compute Simpson’s rule approximation with n=10, for .
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 Good Luck