QUIZ 10

* **Question 1**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Every rational number can be represented in IEEE 754 standard format. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct False | |  |  | |  |  | |  |  |  |

* **Question 2**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Floating point numbers with nonzero exponents are called \_\_\_ numbers |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct normal |  |  | | --- | |  | |  |  |  |

* **Question 3**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | What is the single-precision representation of 9.375? Express your answer as a 32-bit hexadecimal number. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct 0x41160000 |  |  | | --- | |  | |  |  |  |

* **Question 4**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | The precision of a floating-point number is independent of the value. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct False | |  |  | |  |  | |  |  |  |

* **Question 5**

1 out of 1 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | The number zero is representable in normal numbers. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | Correct False | | Response Feedback: | This is the primary motivation for denormal numbers. | |  |  | |  |  |  |