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|  | Quiz 4  CSE 4703  Marks 15  Time 20 minutes | Student ID:\_\_\_\_\_\_\_\_\_\_ |

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| 1 | Consider the language L ={<M> | M is a Turing machine and M outputs 7}. Is L decidable? Justify your answer. | 10 |
| 2 | Define recursive language. Justify whether the following statement is true or false:  “Every recursive language is recursively enumarable language”. | 5 |
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|  | Quiz 4  CSE 4703  Marks 15  Time 20 minutes | Student ID:\_\_\_\_\_\_\_\_\_\_ |

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| 1 | Consider the language L ={<M> | M is a Turing machine and M outputs an even number}. Is L decidable? Justify your answer. | 10 |
| 2 | Define recursively enumarable language. Justify whether the following statement is true or false:  “Every recursively enumarable language is recursive language”. | 5 |