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| Philadelphia University**Faculty of Engineering****Dept. of Mechatronics Engineering** | logo | Student Name:Student Number:Quiz 1 , First Semester: 2014/2015 |

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| Course Title: Digital Control Date: 27/4/2014**Course No: (0640441) Time Allowed: 50 minutes****Lecturer: Dr. Mustafa Al-Khawaldeh No. of Pages: 3** |

**Question 1 (5 marks)**

Find the inverse z- transform for $ G\left(z\right)=\frac{10z}{z^{2 }-1} $ using the partial fractions method.

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