

**ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)**  
**THE ORGANIZATION OF THE ISLAMIC CONFERENCE (OIC)**  
**DEPARTMENT OF ELECTRICAL AND ELECTRONIC ENGINEERING**

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<b>Quiz 1</b>	<b>Sec B</b>	<b>Course Title: Engineering Physics I</b>
<b>Time: 20 minutes</b>	<b>Full Marks: 15</b>	<b>Date: 15/07/2021</b>
<b>Name:</b>		<b>Student Number:</b>

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1. Briefly explain Thomson Plum Pudding and Rutherford atom models. What are the successes and failures of these models? (4)
2. Briefly mention the classification of bonds that exist in solid? (4)
3. Draw a typical unit cell of NaCl crystal. (4)
4. What is lattice energy of a crystal? (3)