

University of Barisal

Department of CSE

2nd

Mid Term, 1st Year 1st Semester, Session: 2017-18

Course Name: Chemistry, Course No: CHEM-1107 (3 Credits)

Time: 1:00 Hour

Full Marks: 10

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| 1. What is chemical bond? Explain with an example. | 1 |
| 2. What is co-ordinate covalent bond? How does it differ from a normal covalent bond? | 2 |
| 3. Explain intermolecular and intramolecular hydrogen bonding with one example for each. | 2 |
| 4. What is VSEPR theory? Predict and draw the geometry of the following compounds using VSEPR model | 5 |

(I) NH_3 (II) XeF_4 (III) CH_4 and (IV) PCl_5