**COMPUTER ENGINEERING DEPARTMENT**

**AI&SC Assignment 1**

COURSE: **B.E.** YEAR: **2020-2021** SEMESTER: **VII** DEPT: **Computer Engineering**

SUBJECT CODE: **CSC703** DATE OF ASSIGNMENT: **22-10-2021** ===========================================================================

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| CLASS: **COMPS BE B** | DATE OF SUBMISSION: **22-10-2021** |

| **Sr. No.** | **Questions** |
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| **1** | Define Artificial Intelligence, Intelligent Agent and its types. |
| **2** | Explain PEAS Descriptors and properties of the task environment with an example. |
| **3** | Explain steps in the problem formulation with the water jug problem. |
| **4** | Explain the working of the A\* algorithm with an example. |
| **5** | Consider the following facts about the dolphins.  Whoever can read is literate.  Dolphins are not literate.  Some Dolphins are intelligent.   1. Represent the above sentence in FOL. 2. Convert them to clause form. 3. Prove that “some who are intelligent cannot read” Using the resolution technique. |
| **6** | Illustrate forward and backwards chaining with suitable examples. |

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**Signature of Student**