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Seat No.: _____ Enrolment No._____

CHIADAT TECHNOLOGICAL UNIVERSITY

| Subject Code: 2270012 Date: 28/11/2018 | | | |
|---|------------|--|----|
| Subject Name: Green Chemistry Time: 10:30 AM TO 01:30 PM Total Marl | | s: 80 | |
| Instructions: | | | |
| | | . Attempt any five questions Make Suitable assumptions wherever necessary. | |
| | | . Figures to the right indicate full marks. | |
| Q.1 | (a) | Define Green Chemistry. Discuss twelve principles of Green Chemistry. | 06 |
| | (b) | Discuss role bio-catalysts in designing green synthesis. | 05 |
| | (c) | Write down Ultrasound assisted reactions of Cannizaro reaction and Reformatsky reaction. | 05 |
| Q.2 | (a) | Explain about Green solvents and Solvent less processes in briefs | 06 |
| | (b) | Write about obstacles in the pursuit of the goals of Green Chemistry. | 05 |
| | (c) | Write a note on Green Chemistry Applications. | 05 |
| Q.3 | (a) | Discuss a note on Combinatorial Green Chemistry. | 06 |
| | (b) | Write a note on Fries rearrangement microwave assisted reaction in water. | 05 |
| | (c) | Write a note on Polymer Supported Catalysts. | 05 |
| Q.4 | (a) | Write down Green Synthesis of Paracetamol, Ibuprofen and Adipic Acid. | 06 |
| | (b) | Write a note on proliferation of solventless reactions. | 05 |
| | (c) | Discuss reduction reaction of microwave assisted reactions in water with suitable examples. | 05 |
| Q.5 | (a) | Write about hydrolysis of benzyl chloride and benzamide of microwave assisted reactions in water. | 06 |
| | (b) | Write a note on Goals of Green Chemistry. | 05 |
| | (c) | Explain microwave assisted solid state reactions with suitable example. | 05 |
| Q. 6 | (a) | Discuss about Hofmann Elimination and Diels Alder Reaction of microwave assisted reactions in water. | 06 |
| | (b) | Explain about ultrasonic energy in details. | 05 |
| | (c) | Write a about inception of Green Chemistry. | 05 |
| Q.7 | (a) | Write a note on Green Chemistry in sustainable development. | 06 |
| | (b) | Discuss on avoidance of unnecessary derivatization in green chemistry. | 05 |
| | (c) | Explain about microwave-assisted organic synthesis in details. | 05 |
