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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- FEBRUARY -2020

B.Tech 8th, Semester

COURSE CODE: 14I1WBT531

MAX. MARKS: 15

COURSE NAME: Plant Biotechnology

COURSE CREDITS: 03

MAX. TIME: 1 HRS

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*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

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- Q.1 Why CaMV 35S promoter seems to be a very strong promoter? 2 CO I
- Q.2 Earliest developed constitutive promoters does not function good in monocotyledons plants. Based on your learning of different promoters how this problem has been obviated? 2 CO II
- Q.3 Diagrammatically represent essential components of maize ubiquitin promoters. Mention any three works in which maize ubiquitin or Rice Act-1 or derivative are used as promoter in expression cassette. 3 CO I
- Q.4 What do you understand by selectable markers and reporter genes? Discuss any two examples of each emphasizing on their source, enzymes encoded / mode of action, substrate, assay method (if applicable) and applicability. 4 CO I
- Q.5 Describe the organization of Ti plasmid in details? Your answer must include description of different functional modules of Ti plasmid. 4 COII