## BING A INSTITUTE OF TECHNOLOGY OFF-CAMPUS DEOGHAR, DEPARTMENT OF

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CLA	SS: BTech	MATHEMATICS  (1 <sup>st</sup> QUIZ EXAMINATION)  SEMESTER: 3 <sup>rd</sup> BRANCH: CSE	SESSION: MO/24
TIME: Scheduled Class Time  SUBJECT: MA 205 DISCRETE MATHEMATICS			FULL MARKS: 10  Marks
Q1.	Verify the law of sy $(p \lor q) \land (\neg p \lor r)$	Plagism by truth table, i.e., show that the proposition $\rightarrow (q \lor r)$ is a tautology	3
Q2.	Obtain the principle $p \to ((p \to q) \land \neg$	disjunctive normal form (DNF) of	3
		al induction $6^n - 5n + 4$ is divisible by $5 \forall n \ge 1$	4
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