a. artifical intelligence as the study and construction of tor a given agent archibitcture. b. The aritical intelligence is a part of both the engineering and Scientific fields. Using John Mc (athy's defiction, it is the science and engineering of mark intelligent machines." C. The lat problem that rould not get any easier are those belonging to the Mon-deterministic Polynomial (NP) class.

These intractable problems to not have an efficient algorithm of states that a problem can be in , in clude initial and goal the or search free is a free in which the node is the start state and the set of children for sea Each node consists of the others that are reachable by take any search node its a representation of a state in a stanh of the agent in relation to tits environment, goal is a set of decirable states in the en vironent the must pass agoal test Action are represent as arcs in Search problem graphani are to operation, that an agent perfor by CamScanner

