**TERM PAPER**

The CCC 501 aka Scientific Epistemology and Consciousness had been a fruitful experience. A plethora of topics were discussed and debated upon. The topics were diverse in nature., ranging from Physics, Chemistry and Biology to Language, Music and Philosophy. Often Science was seen from the viewpoint of a philosopher, which was the intriguing part of the discussions.

I believe, the aim of the course was to imbibe in the students, the versatility that is required from an intellectual. Some bamboozling facts and empirical phenomena presented in the classes have sure broadened the term *Consciousness*

This term paper contains three topics from amongst the many discussed in the group presentations.

**Artificial Intelligence**

The topic was introduced by the classic definition enunciated by Turing : “ intelligence is something that can pass the Turing Test”.

Technically, the test determines that from among the two participants A and B , which one is Human and which one is Machine. Turing considered the question that “can machines think?”. The first breakthrough in the field of Artificial Intelligence was in 1966, when Joseph Weizenbaum devised created a program which appeared to pass the Turing Test.The program was called ELIZA later a similar program named PARRY was developed .

Artificial intelligence , as the name suggests means intelligence exhibited by machines and softwares. AI is a wide field and has a variety of goals viz problem solving, reasoning , deduction , learning etc. The central engineering goal of AI is the design and synthesis of useful , intelligent artifacts. We actually want to build agents that act intelligently

In the present day scenario , AI has found application in many areas (courtesy ground breaking research and development) , few examples would be predictive modelling , Ntatural Language Processing , stock trading etc

Artificial Intelligence and Consciousness

AI aims to mimic human consciousness and thinking. Machines are designed in such a way such that they stimulate human consciousness or cognitive processes correlated with consciousness. I particularly now believe human consciousness can be replicated by applying AI algorithms. The cloning currently may not be to a very high accuracy but it will definitely be highly accurate in the future. This precisely has been a trend in AI research. The things unimaginable now become realistic in the future.

An interesting question which was raised in class was “Can AI stimulate consciousness?”

Artificial intelligence has progressed slower than what was expected of it. Yes it has solved the game of checkers but it is far from stimulating consciousness. Human brain is still too complex for the computer scientists to model exactly. Neural Networks (an integral part of AI) is an effort towards generating human thinking bots.

**Synesthesia**

Synesthesia is a rare neurological condition in which two or more senses entwine. One having synaesthesia can confuse people by saying sentences like – “ the letter A is brown” or “the number 8 is orange”.

Synesthesia can involve any number of senses . Most common ones being coloured letters and numbers. One can see letters and numbers in brilliant hues . Synesthesia has grudgingly come to be accepted by leading scientists as a an actual phenomenon with neurological basis. It generally is developed in the childhood , among the children who are first time introduced to abstract concepts.

I do believe that synesthesia influences consciousness. Synesthes have a very different view of consciousness. They have different senses surrounding them , green may cause pain while red can be very peaceful.