



**PERFECTION
IAS**

50 DAYS PLAN

Mains Answer Writing Program
for **BPSC 67**



**Science and
technology**

38. Analytically describe in detail the merits and demerits between a natural robot 'human' and a modern artificial robot on the basis of their right and wrong behaviour towards nature in the present time of our world.

वर्तमान समय में मानव (प्राकृतिक रोबोट) और कृत्रिम रोबोट(AI) के प्रकृति पर व्यवहारिक नकारात्मक और सकारात्मक प्रभाव के आधार पर विश्लेषणात्मक व्याख्या करें।

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Q 38. Analytically describe in detail the merits and demerits between a natural robot 'human' and a modern artificial robot on the basis of their right and wrong behaviour towards nature in the present time of our world.

Robotics is constantly evolving, and machine learning and artificial intelligence technologies are set to make robots more sophisticated and advanced than ever before. In the future robots will be functionally capable of taking over most of if not all automation. However, humans are still several *major* advancements in machine learning away from that – and even then, there will be limitations. ‘

In many situations' robots can increase productivity, efficiency, quality and consistency of products:

Reduction in Human Error: Robots can significantly reduce errors and increase accuracy and precision. The decisions taken by Robots in every step is decided by information previously gathered and a certain set of algorithms.

Zero Risks: humans can overcome many risks by letting artificial robots do them for humans. Whether it be defusing a bomb, going to space, exploring the deepest parts of oceans, machines with metal bodies are resistant in nature and can survive unfriendly atmospheres.

24x7 Availability: humans are productive only about 3 to 4 hours in a day. But Robots can work endlessly without breaks. They think much faster than humans and perform multiple tasks at a time with accurate results.

Digital Assistance: Many websites utilize digital assistants to deliver user-requested content. Some **chatbots** are built in a way that makes it difficult to tell whether we are conversing with a human or a chatbot.

New Inventions: Robotics is the driving force behind numerous innovations that will aid humans in resolving the majority of challenging issues. For instance, recent advances in AI-based robotics have allowed doctors to detect cancer at an earlier stage.

Unbiased Decisions: Human beings are driven by emotions, whether we like it or not. Robots doesn't have any biased views, which ensures more accurate decision-making.

Perform Repetitive Jobs: Humans may use AI to efficiently automate menial chores and even eliminate “boring” tasks for people, allowing them to focus on being more creative.

Robotics in Risky Situations: It can be utilized effectively in any type of natural or man-made calamity, whether it be going to Mars, defusing a bomb, exploring the deepest regions of the oceans, or mining for coal and oil.

Disadvantages of Artificial Robots

High Costs: It requires plenty of time and resources and can cost a huge deal of money. Robots also needs to operate on the latest hardware and software to stay updated and meet the latest requirements, thus making it quite costly.

No creativity: Robots cannot learn to think outside the box. Robot is capable of learning over time with pre-fed data and past experiences, but cannot be creative in its approach.

Unemployment: Robot is displacing occupations and increasing unemployment. Therefore, some claim that there is always a chance of unemployment as a result of chatbots and robots replacing humans. This is not always the case, though, as it creates additional opportunities for humans to work.

Make Humans Lazy: Robots automate the majority of tedious and repetitive tasks. This addiction to Robotics can cause problems to future generations.

No Ethics: Ethics and morality are important human features that can be difficult to incorporate into an Artificial Robots. The rapid progress of Robotics has raised a number of concerns that one day, Robotics will grow uncontrollably, and eventually wipe out humanity.

Emotionless: Humans function as a team, and team management is essential for achieving goals. human connections, which form the basis of teams, cannot be replaced by Robots.

No Improvement: Robots are proficient at repeatedly carrying out the same task, but if we want any adjustments or improvements, we must manually alter the codes. Robotics cannot be accessed and utilized akin to human intelligence, but it can store infinite data.

These are both the advantages and disadvantages of Robotics; one thing is for sure has massive potential for creating a better world to live in. The most important role for humans will be to ensure that the rise of the AI doesn't get out of hand.