**QUESTION 1 (ONE) LOCATE FIVE DISRUPTION OF AI**

AI is disrupting multiple industries, transforming how businesses operate and how people interact with technology. Here are five major disruptions caused by AI:

**1. Automation & Job Displacement**

* AI-powered automation is replacing routine and repetitive jobs, especially in manufacturing, customer service, and logistics.
* Chatbots and virtual assistants reduce the need for human customer support.
* Autonomous vehicles threaten jobs in transportation.

**2. Healthcare Revolution**

* AI-driven diagnostics improve disease detection (e.g., AI detecting cancer in medical scans).
* Personalized medicine tailors treatments based on patient data.
* AI-powered robotic surgery enhances precision and efficiency.

**3. Creative & Content Generation**

* AI tools generate music, art, and writing (e.g., ChatGPT, DALL·E, Midjourney).
* Automated journalism produces news reports quickly.
* Deepfake technology raises concerns about misinformation.

**4. Finance & Banking Transformation**

* AI detects fraud by analyzing transaction patterns.
* Algorithmic trading makes stock market decisions in milliseconds.
* Personalized banking experiences through AI-driven chatbots and assistants.

**5. Education & Learning**

* AI tutors personalize learning experiences for students.
* Automated grading speeds up evaluation.
* Virtual reality (VR) + AI enhance immersive education experiences.

**QUESTION 2 (TWO) THE ADVANTAGES OF AI**

AI offers numerous advantages across various fields. Here are some key benefits:

**1. Increased Efficiency and Automation**

* AI can automate repetitive tasks, reducing human workload.
* It improves productivity in industries like manufacturing, customer service, and logistics.

**2. Enhanced Decision-Making**

* AI analyzes large amounts of data quickly to provide insights and predictions.
* Businesses use AI for data-driven decision-making, reducing errors.

**3. Improved Accuracy and Reduced Errors**

* AI-powered systems, such as medical diagnosis tools, provide precise results.
* Reduces human error in fields like finance, engineering, and healthcare.

**4. Personalization**

* AI tailors content for users, such as personalized recommendations on Netflix, Amazon, or Spotify.
* Helps businesses provide better customer experiences.

**5. 24/7 Availability**

* Unlike humans, AI systems can work continuously without fatigue.
* AI-powered chatbots and virtual assistants provide constant customer support.

**6. Better Healthcare Services**

* AI helps doctors diagnose diseases faster and more accurately.
* AI-powered robots assist in surgeries and drug discovery.

**7. Cost Reduction**

* AI reduces labor costs by automating tasks.
* Businesses save money on operational expenses.

**8. Improved Security**

* AI enhances cybersecurity by detecting threats in real-time.
* AI-powered surveillance systems help improve public safety.

**9. Faster Processing and Analysis**

* AI can analyze massive datasets in seconds, improving efficiency in research and business.
* Financial institutions use AI for fraud detection and risk assessment.

**10. Innovation and Creativity**

* AI assists in creative fields like music, art, and writing.
* Helps in scientific discoveries, such as new materials and space exploration.

**QUESTION 3 (TWO) THE DISADVATAGES OF AI**

AI has many advantages, but it also comes with several disadvantages. Here are some key drawbacks:

### ****1. Job Displacement****

AI automation can replace human workers, leading to unemployment in industries like manufacturing, customer service, and even creative fields.

### ****2. High Costs****

Developing, implementing, and maintaining AI systems can be expensive. Small businesses and developing countries may struggle to afford AI solutions.

### ****3. Ethical Concerns****

AI raises ethical issues, such as bias in algorithms, privacy violations, and the potential for misuse in surveillance or deepfake technology.

### ****4. Lack of Human Emotion & Creativity****

AI lacks emotional intelligence and true creativity. While it can mimic human behavior, it cannot genuinely understand feelings or create original art like humans.

### ****5. Security Risks****

AI can be exploited by hackers to create advanced cyber threats, including deepfakes, automated hacking, and AI-driven malware.

### ****6. Dependency on AI****

Over-reliance on AI could reduce human problem-solving skills and critical thinking, making societies overly dependent on machines.

### ****7. Misinformation & Deepfakes****

AI can generate convincing fake news, misinformation, and deepfake videos, which can manipulate public opinion and cause societal harm.

### ****8. Decision-Making Transparency****

AI models, especially deep learning, often operate as "black boxes," meaning their decision-making processes are difficult to understand and explain.