Teacher Answer Key

Case Study

1. Billing specialist work is primarily routine and information-based — processing records, entering codes, and following predictable rules — which matches exactly the kind of work AI handles well. Nursing and plumbing require physical presence, unpredictable judgment, and human interaction that AI cannot replicate.

2. Marcus should look for careers that involve physical presence, interpersonal skills, or creative judgment. He should also develop strong digital literacy and comfort with AI tools so he can be the human who works alongside AI rather than the worker who is replaced by it.

Multiple Choice

1. B

2. D

3. B

Matching

1-D, 2-C, 3-E, 4-A, 5-B

Fill-in-the-Blank

1) 30, 2) information, 3) augmentation

Short Answer (Sample Responses)

Q1: A radiologist's job changes so that AI pre-screens images and flags suspicious areas, allowing the radiologist to review a higher volume of cases and focus attention on the most critical findings. The human role shifts toward final judgment and communication with patients rather than initial image scanning.

Q2: Older workers often have decades of experience in a specific routine skill that AI is now automating, and they have fewer years of working life ahead to justify the cost and time of retraining. Younger workers entering the workforce have grown up with digital tools and can adapt to AI-augmented roles more naturally, though the inequality created is difficult to resolve fairly.

Q3: The job-loss side is supported by the McKinsey and Goldman Sachs estimates showing hundreds of millions of roles at risk. The new-jobs side is supported by the emergence of roles like AI trainers, prompt engineers, and AI ethicists that barely existed five years ago, as well as historical patterns where previous technological revolutions created new industries.