ANSWER KEY
QUALITATIVE ANALYSIS
1. Salt (2.5)  
2. Vitamin C (2.5)  
3. Gypsum (2.5)  
4. Baking soda (2.5)  
5. Yeast (2.5)  
6. Rubbing alcohol (2.5)  
7. Water (2.5)  
8. Ammonia (2.5)  
9. PETE / Polyethylene terephthalate (2)  
10. Polyester (2)  
11. Cotton (2)  
12. Polyester (2)  
13. Rayon (2)  
14. Wool (2)

MULTIPLE CHOICE/FILL IN
1. D (2)  
2. A (2)  
3. C (2)  
4. A (2)  
5. C (2)  
6. Ridges rise in the center, pointing upward or forming a triangle. (3)  
7. Man-made polymer (3)  
8. More than one metals melted together (3)  
9. Medulla, cortex, and cuticle (3)  
10. Whorls, archs, loops (3)

SHOEPRINT ANALYSIS
Suspect 4 (4)

FINGERPRINT ANALYSIS
Suspect 4 (4)

CHROMATOGRAPHY
Suspect 4 (4)

ANALYSIS (30)
Suspect 4, Shadow the Hedgehog committed the crime

Reasoning:
- Shoeprint analysis  
- Fingerprint analysis  
- Chromatography  
- Different aspects of the qualitative analysis