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Mobile X-ray Test

1. What are three factors to minimize radiation exposure?

    a. Distance, Shielding, and Time
    b. Distance and Time
    c. Distance and Shielding
    d. Distance only

2. What safety items should you wear working around/on x-ray equipment?
    a. watches
    b. rings
    c. thyroid shield
    d. necklaces

3. Name a clinical application for mobile x-ray devices?
    a. Provide organ and bone fracture viewing
    b. Offers patient transportation into emergency rooms
    c. Regulates hormones, tissue functions, and metabolism disorders
    d. Breakdown fatty acids and fats to the circulatory system

4. During a PM what should you NOT check?
    a. Source Image Distance (SID)
    b. power supply voltages on PCB
    c. batteries
    d. oil leaks

5. What federal standards and regulations do BMETs adhere to for x-ray devices?
    a. 21 CFR title 12
    b. CFR title 21
    c. AFI 41-201
    d. AFI 41-209

6. During a Cal what should you NOT check?
    a. Source Image Distance (SID)
    b. KvP
    c. handbrake
    d. mAs

7. SCENARIO: A radiology technician calls you on the phone. The technician tells you that a mobile has an alarms error code “Test 04-failure”. What is most likely NOT the cause of this problem?
    a. Defective x-ray timing circuit

b. Bleeder malfunction
c. Low battery voltages
d. Checksum failure

8. SCENARIO: A radiology technician calls you on the phone. The technician asks you how long until you're finished with the acceptance and safety testing for my new mobile x-ray device? What FDA form do you fill out?

a. 2578
b. 7925
c. 2579
d. 2575

9. SCENARIO: A radiology technician calls you on the phone. The technician says that the x-ray mobile is no longer mobile. She/he explains that it will not move at all? What is most likely the problem?

a. Uncalibrated unit
b. Low or damaged batteries
c. Shorted power supplies
d. Mended and shorted length of wire

10. SCENARIO: A radiology technician calls you on the phone. The technician says that the x-ray mobile is not producing an x-ray? What is most likely the problem?

a. Uncalibrated unit
b. Low or damaged battery
c. Mended and shorted length of wire
d. Bad PCB contactor

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Answer Key

1. a
2. c
3. a
4. a
5. b
6. c
7. d
8. c
9. b
10. d