

<b>Name:</b>	<b>Date:</b> /    /
<b>Score:</b>	<b>Checked By:</b>

**True/False**

Instruction: Check the appropriate box on each question to indicate whether the statement is True or False.

1. The smaller diameter cone of the NOMAD Pro 2, combined with the use of DC power, and primary shielding greatly reduce a patient X-ray exposure.  
 True     False
2. X-ray locks in NOMAD Pro 2 automatically engage after 2 hours of inactivity.  
 True     False
3. Because NOMAD Pro 2 shielding limits the exposure, it is permissible to have other people in the exam room during exposures without any precautions.  
 True     False
4. The NOMAD Pro 2 should be routinely cleaned using disinfectant wipes, or some other non-acetone cleaner to maintain cleanliness.  
 True     False
5. The backscatter shield is adjustable to accommodate positioning devices and other special needs but if the backscatter shield is adjusted, additional precautions are required.  
 True     False
6. If the NOMAD Pro 2 has been dropped, it should be returned to Aribex for an evaluation.  
 True     False
7. An exposure can be prematurely terminated for any reason by releasing the trigger at any time during the exposure.  
 True     False
8. The NOMAD Pro 2 should normally be held with two hands for stability whenever possible.  
 True     False
9. The Handset can be left on the Charging Cradle after reaching a full charge without harming the batteries.  
 True     False

10. The Handset should be detached from the NOMAD Pro 2 at the end of each day's use.

True  False

### Fill in the Blank

Instruction: Complete the sentence by filling in the blank.

11. Radiation safety requires that we establish an in-house radiation protection program that complies with all applicable regulations and addresses precautions for patient and operators who have or may have what medical condition? \_\_\_\_\_

12. When the NOMAD Pro 2 is powered on and in the settings screen, a single quick pull of the trigger will enable the device. The green LED will illuminate and the display will indicate the device is **ENABLING X-RAYS** and then the \_\_\_\_\_ message will appear on the screen (meaning the next trigger pull will fire X-rays).

13. When the NOMAD Pro 2 is not in service, it is advisable to ensure that the device is securely stored and the X-rays are \_\_\_\_\_ so that unauthorized / unintended use or damage does not occur.

14. An alarm indicating a partial exposure (when the trigger was not depressed through the entire timer setting, either on purpose or accidentally) is indicated by a series of beeps and the \_\_\_\_\_ message on the screen until a button is pressed.

15. Do not \_\_\_\_\_ the NOMAD Pro 2 until the patient and film / sensor are positioned and ready to avoid unintended firing of the NOMAD Pro 2.

16. When there is not enough battery charge left to take an exposure, the charge indicator bars will fade away and the \_\_\_\_\_ alarm message appears on the screen, and the NOMAD Pro 2 will not allow an exposure to begin.

17. If left unused NOMAD Pro 2 will automatically shut down after approximately \_\_\_\_\_ minutes. The NOMAD Pro 2 can also be turned off by pressing the POWER button.

18. Some battery \_\_\_\_\_ may be lost during extended inactivity (leading to fewer exposures between each Handset charging session).

**Multiple Choice**

Instruction: Circle **all** of the correct responses to each of the following.

19. In order to maintain the optimal operator safety zone the backscatter shield should be:
- a) held so it is parallel to the operator.
  - b) slid back on the cone toward the operator.
  - c) held so NOMAD Pro 2 is positioned close to the patient.
20. The duty cycle (rest period between exposures) to protect your NOMAD Pro 2 is as follows:
- a) 6 seconds for an exposure 0.09 seconds long
  - b) 12 seconds for an exposure 0.20 seconds long
  - c) 24 seconds for an exposure 0.40 seconds long
  - d) 45 seconds for an exposure 1.00 second long
21. The Technique Factor for making exposures:
- a) is represented in a chart that is for reference only in establishing a customized exposure technique in your office.
  - b) will be affected by various factors, including the following: preference, technique, film or sensor speed, and patient mass.
  - c) can be reprogrammed by the operator into the NOMAD Pro 2.
  - d) is included on the CD in a blank form format for creating a customized *Technique Factor Chart* for your office.
22. Radiation safety is at the heart of the NOMAD Pro 2 design. The NOMAD Pro 2 has:
- a) primary shielding to contain the X-ray beam as it is generated.
  - b) secondary shielding to direct backscatter radiation away from the operator when properly positioned.
  - c) shielding that results in an operator X-ray dose that is well below federal occupational limits when used correctly.
  - d) smaller cone and focal point diameter for reduced patient exposure and enhanced image quality.

**In Your Own Words**

Instruction: Answer the following questions with as much detail as possible.

23. Describe the operator safety zone and how you will maintain it. \_\_\_\_\_

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24. How do you minimize the chances of “cone-cutting”? \_\_\_\_\_

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25. What are some of the factors that would require increased exposure time? \_\_\_\_\_

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26. What does the green LED and the green background for the time setting on the screen indicate? \_\_\_\_\_

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### Practical – Hands-On

In this section, your instructor will observe as you demonstrate your knowledge and understanding of how to operate the NOMAD Pro 2 and sign you off for each operation.

- Connect a Handset onto the NOMAD Pro 2.
- Demonstrate the correct way to hold the NOMAD Pro 2 for exposures.
- POWER on NOMAD Pro 2.
- Demonstrate how to LOCK the X-ray.
- Using the user interface panel, set the exposure time for an adult bitewing using a sensor.
- Set the exposure for a child anterior when using film.
- READY [BUT DO NOT FIRE]** the NOMAD Pro 2.
- POWER down the NOMAD Pro 2.
- Charge a Handset on the Charging Cradle.
- Demonstrate how to store NOMAD Pro 2 in between exposures.
- Demonstrate the safe storage practices for NOMAD Pro 2 and its Handsets overnight.