

## ami HTX Practical Examination

### X-ray Practical Operations Quiz

**All Users must pass with a score of 80% (20/25)**

Score: \_\_\_\_\_

Name: \_\_\_\_\_

Date: \_\_\_\_\_

1. The X-ray operation on ami HTX can be performed with the chamber door open
  - a) True
  - b) False
2. To initiate the X-ray function on the ami HTX, the following is required.
  - a) Radioisotopes
  - b) X-ray key
  - c) Ami HTX starts X-ray default
  - d) None of the above
3. Why is it essential to ensure the door interlock is functional?
  - a) Animals do not escape
  - b) to shield light
  - c) to ensure no X ray leakage
4. Operator safety training is required prior to use of X-ray operation on ami HTX
  - a) True
  - b) False
5. Federal Radiation Safety Standard requires that the radiation emitted from a cabinet x-ray system not exceed an exposure of
  - a) Less than 0.5 mR
  - b) 100 mR
  - c) 5 mR
6. What should be your first response if you detect the interlock door open during X ray operation?
  - a) Continue imaging
  - b) Try to close the door
  - c) Use emergency stop
  - d) Unplug the machine
7. Do you need to wear a dosimeter while operating X-ray on ami HTX?
  - a) Not required
  - b) Mandatory to wear a dosimeter
  - c) Optional
8. Portable survey meter is required to survey the area surrounding machine
  - a) True
  - b) False
9. Users must mandatorily wear leaded glasses and thyroid collars while operating X rays on ami HTX system?
  - a) True
  - b) False
10. The X-ray images can be captured on Ami HTX at following intensities
  - a) High
  - b) Low
  - c) Only high
  - d) both High and low
11. The power switch to the ami HTX is located in the front of the unit
  - a) True
  - b) False
12. The ami HTX is a \_\_\_\_\_ radiography machine
  - a) Diffraction X-ray
  - b) Cabinet X-ray
  - c) Electron Microscopy
  - d) Field X-ray

13. The green button on the lower front of the ami HTX is the start button
  - a) True
  - b) False
14. The red button on the lower front of the ami HTX is the
  - a) Start button
  - b) Emergency stop button
  - c) Open door button
  - d) None of the above
15. During imaging, X-rays are generated by the ami HTX for
  - a) 1 min
  - b) 5 sec
  - c) 10-15 sec
  - d) None of the above
16. Every user is issued their own X-ray key
  - a) True
  - b) False
17. The ami HTX is shielded by \_\_\_\_\_ to prevent leakage of X-rays
  - a) plastic
  - b) lead
  - c) steel
  - d) aluminum
18. No unauthorized personnel may defeat or override any safety feature on the X-ray generator or shielding
  - a) True
  - b) False
19. Entering the data collection settings, the date and sample information on the computer serves as X-ray use logs
  - a) True
  - b) False
20. X-ray images are collected using the \_\_\_\_\_ acquisition mode
  - a) Fluorescence
  - b) Luminescence
  - c) X-ray
  - d) None of the above
21. Fluorescence, Luminescence and X-ray images can be collected simultaneously
  - a) True
  - b) False
22. In order to start data collection and save your image into your folder
  - a) Turn on the computer
  - b) Press the green button on the front of the Ami HTX
  - c) Click acquire in the imaging software
  - d) None of the above
23. The Spectral ami HTX User manual is available
  - a) in the imaging room
  - b) on the MMRI intranet
  - c) all of the above
24. All users are required to sign into the log sheet before starting
  - a) True
  - b) False
25. Flammable or potentially explosive materials are not allowed in the ami HTX imager.
  - a) True
  - b) False