

MULTIPLE CHOICE

DISPLAYS & IMAGE STORAGE - PRACTICE SET - ANSWER KEY

PROPOSED FOR REVIEW - questions are the author's verbatim Q&A; distractors are auto-selected from other answers in the same bank and must be checked by a subject-matter reviewer (a distractor could coincidentally be correct). Not authoritative assessment content.

1. What is a funnel-shaped vacuum tube with an electron gun located at the smaller end?

- A. Digital scan converter
- B. Analog-to-digital converter
- C. Analog scan converter**
- D. Cathode-ray display monitor

2. What first stores an image and then displays it?

- A. Cathode ray tube
- B. Output power control
- C. Receiver amplifier
- D. Scan converter**

3. What was the first form of scan converter?

- A. Digital scan converter
- B. Analog scan converter**
- C. A-to-D converter
- D. PACS workstation

4. What determines the brilliance of the displayed image?

- A. Contrast
- B. Brightness**
- C. Bistability
- D. Dynamic range

5. What is the smallest amount of computer memory called?

- A. Bit**
- B. Pixel
- C. Word
- D. Byte

6. Is the real world known as analog or digital?

- A. Binary
- B. Analog**
- C. Pixel-based
- D. Digital

7. Are large pixels associated with low or high pixel density?

- A. Low pixel density**
- B. High bit depth
- C. High contrast resolution
- D. High pixel density

8. What word comes from the term binary digit?

- A. Pixel
- B. Word
- C. Byte
- D. Bit**

9. How do you determine the number of gray shades from the number of bits?

- A. Multiply 2 by itself once for each bit**
- B. Divide the number of bits by 2
- C. Add 2 to the number of bits
- D. Multiply 10 by the number of bits

10. What term describes the number of picture elements per inch?

- A. Line density
- B. Bit depth
- C. Dynamic range
- D. Pixel density**

11. What is the manipulation of an image called before it is stored in the scan converter?

- A. Postprocessing
- B. Preprocessing**
- C. Reading
- D. Archiving

12. Do analog numbers have a limited or unlimited range of values?

- A. Unlimited continuous range of values**
- B. Only ten possible values
- C. Limited range of values
- D. Only two possible values

13. Is an image that shows many gray scales a high- or low-contrast image?

- A. High contrast
- B. Low contrast**
- C. Bistable contrast
- D. No contrast

14. Is read magnification preprocessing or postprocessing?

- A. A-to-D conversion
- B. Preprocessing
- C. Postprocessing**
- D. Writing

15. What does the term "bi-" mean?

- A. One
- B. Two**
- C. Many
- D. Half

16. Do you preprocess or postprocess a frozen image?

- A. Postprocess**
- B. Preprocess
- C. Write
- D. Digitize

17. Does an image have more or less detail with low pixel density?

- A. No loss of detail
- B. Maximum detail
- C. More detail
- D. Less detail**

18. A word of computer memory is made of what?

- A. 2 bytes or 16 bits**
- B. 8 bytes or 64 bits
- C. 4 bits or 1 nibble
- D. 1 byte or 8 bits

19. What type of display has a glass vacuum tube shaped like a funnel?

- A. Digital video disc (DVD)
- B. Cathode ray tube (CRT)**
- C. Liquid crystal display (LCD)
- D. Scan converter

20. What is processing of a reflected signal before storage called?

- A. Archiving
- B. Postprocessing
- C. Preprocessing**
- D. Read magnification

21. What are the two different forms of magnification?

- A. Analog and digital magnification
- B. Read and write magnification**
- C. Axial and lateral magnification
- D. Pre and post compensation

22. What does PACS stand for?

- A. Patient Archive and Computer Server
- B. Picture Archiving and Communications System**
- C. Picture Analysis and Contrast Storage
- D. Pixel Acquisition and Conversion System

23. What type of numbers are associated with computer devices?

- A. Analog numbers
- B. Real-world numbers
- C. Continuous numbers
- D. Digital numbers**

24. What is a group of eight bits of computer memory?

- A. Byte**
- B. Bit
- C. Word
- D. Pixel

25. What is it called when you change the image after it has been stored in the scan converter?

- A. Postprocessing**
- B. Analog-to-digital conversion
- C. Preprocessing
- D. Writing