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Examination for Digital Imaging for Mining Applications

1. This document is intended to convey recommendations for specific camera manufacturers and models?
 - a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

2. Other than rectangular, sensor arrays are now starting to appear in what geometric shape?
 - a) Octagonal
 - b) Hexagonal
 - c) Pentagonal
 - d) Trapezoidal

3. Sampling is sometimes referred to as what?
 - a) Digitisation
 - b) Frequency
 - c) Conversion
 - d) Aliasing

4. With a higher MTF value, the image quality is likely to be what?
 - a) Better
 - b) Worse
 - c) Unchanged

5. Most CCDs are larger than the size of a 35 mm film negative?
 - a) True
 - b) False
 - c) Not enough information for a specific answer
 - d) Too many variables for a specific answer

6. Which of the following sensors will have the highest amount of 'noise'?
- a) 6 μ m by 6 μ m
 - b) 12 μ m by 12 μ m
 - c) 9 μ m by 9 μ m
 - d) 3 μ m by 3 μ m
7. What size is the sensor in the Nikon D1X?
- a) 4,000 pixels by 2,264 pixels
 - b) 3,008 pixels by 1,960 pixels
 - c) 4,000 pixels by 1,312 pixel
 - d) 2,000 pixels 1,312 pixels
8. In which direction should the lens aperture be pointed when changing lenses?
- a) Down
 - b) Up
 - c) To the side
9. Which camera is referred to as being more robust?
- a) Nikon F100
 - b) Kodak DCS315
 - c) Nikon D1
 - d) Canon D30
10. What is normally the aspect ratio of area-scan cameras?
- a) 3 to 2
 - b) 4 to 3
 - c) 2 to 1
 - d) 5 to 4
11. Which of the following is not listed as a common CCD format size diagonal?
- a) 11 mm
 - b) 8 mm
 - c) 10 mm
 - d) 6 mm
12. As shutter speed is increased, exposure time is what?
- a) Shortened
 - b) Lengthened
 - c) The same
13. 4-tap sensors can produce speeds approaching what?
- a) 1400 frames per second
 - b) 900 frames per second
 - c) 1200 frames per second
 - d) 1000 frames per second

14. Linescan camera arrays are typically constructed with from 512 up to what number of elements?

- a) 8291
- b) 8192
- c) 8921
- d) 8129

15. Modern cameras are typically available with up to how many TDI stages?

- a) 76
- b) 84
- c) 96
- d) 69

16. Many modern computer monitors use non-interlaced displays at frame rates of up to what?

- a) 120 Hz
- b) 100 Hz
- c) 110 Hz
- d) 130 Hz



Answer Sheet for Digital Imaging for Mining Applications
 TPDH-00034

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Please return this answer sheet and your check or money order for \$80.00 to Triton-PDH.com

Please completely fill in one box for each answer

	A	B	C	D
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I hereby certify that I have studied the course materials, and the above answers are my own.
 No other person has helped me complete this examination.

 Signature

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