## MET 352 Engineering Design Department of Materials and Metallurgical Engineering South Dakota School of Mines and Technology

## Short Response 8: Feb 8, 2019

## Answer any one question.

6. Hazardous Materials

Only the first question answered will be graded.

<ol> <li>Which of the following are the two "a)</li> <li>□ Theoretical and Practical</li> <li>b) □ Physical and Theoretical</li> <li>c) □ Physical and Functional</li> <li>d) □ Functional and Hypothetical</li> <li>e) □ Hypothetical and Theoretical</li> <li>Key: c</li> </ol>	
OR  2. Which of the following are the steps  a)	es ia
OR 3. Cite three common Trade Study evalutes:  • Development cost	uation criteria.
<ul> <li>Lifecycle cost</li> <li>Requirements compliance <ul> <li>Functional</li> <li>Performance</li> <li>Operational</li> <li>Programmatic</li> </ul> </li> <li>Technical risk (Maturity)</li> </ul>	<ul> <li>Budget risk</li> <li>Schedule risk</li> <li>Operational complexity</li> <li>Vendor assessment</li> <li>System maturity</li> <li>Development support tools</li> </ul>
<ol> <li>Reliability, Maintainability, Availability</li> <li>System Safety</li> <li>Quality</li> <li>Human Factors</li> <li>Electromagnetic Environmental Effects</li> </ol>	<ul> <li>Test support tools</li> <li>Development team familiarity with candidate hardware and software</li> <li>Quality of logistics support</li> </ul>