## Question Points Notes

<table>
<thead>
<tr>
<th>Question</th>
<th>Points</th>
<th>Notes</th>
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<tbody>
<tr>
<td>1</td>
<td>20/20</td>
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<tr>
<td>2</td>
<td>24/20</td>
<td>+4 points: For additional info for question 2a.</td>
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<td>3</td>
<td>20/20</td>
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<td>4</td>
<td>20/20</td>
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<td>5</td>
<td>20/20</td>
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<tr>
<td>Extra Credit:</td>
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<td>Missed Points:</td>
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<td>Final Score:</td>
<td>104</td>
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Additional Comments:
Treasure Hunt: Red Team B

Question 1:
You are making candles...You know there is a standard test method you can perform to help collect and analyze these emissions from your burning candle:

A: What temperature should the room be?
   25 °C ± 5°C (77 °F ± 9 °F)
B: How long should your candle continuously burn during the test?
   Candle should burn continuously for 4 h (± 5 min)

Citation:
F2326, Standard Test Method for Collection and Analysis of Visible Emissions from Candles as They Burn, February 2021, pp. 2-3.

Link: https://compass.astm.org/document/?contentcode=ASTM%7CF2326-04R21%7Cen-US

Question 2:
It would be helpful to get some statistics on the size of the global fiber optic sensor industry:

A: What is the projected size of the global fiber optic sensor industry supposed to be in 2025?
   “The global fiber optic sensors market should reach $4.9 billion by 2025 from $2.9 billion in 2020 at a compound annual growth rate (CAGR) of 10.9% for the forecast period of 2020 to 2025.” (in introduction)

B: Which region had the second largest market in fiber optic sensors in 2020?
   Europe is second largest region (in ch7)

Citation:

Question 3:

You need to find a partner to help develop and commercialize (hopefully) your new product idea for telemedicine. An industry expert has suggested to you that Cerner Corporation might be a potential partner. Before contacting them, learn more about Cerner Corporation. Uncover the following facts about the company’s operations:

a. The year when the company was founded or incorporated (or changed ownership)
   i. The company was founded in 1979
      a. Accessed through: BCC Research
   2. D&B Hoovers, “Cerner Corporation Company Summary”, Company Summary, July 2021, Pages 1-4
      a. Accessed through: D&B Business Browser

b. The address of their headquarters
   i. 2800 Rock Creek Parkway, Kansas City, Missouri
      a. Accessed through: Business Source Complete
   2. D&B Hoovers, “Cerner Corporation Company Summary”, Company Summary, July 2021, Pages 1-4
      a. Accessed through: D&B Business Browser

c. Total number of employees worldwide (i.e., all sites, if possible)
   i. 27,400
      a. Accessed through: Business Source Complete

d. Latest revenue (sales) figures
   i. $5,692.6 million
      a. Accessed through: Business Source Complete

e. What is US 8-Digit SIC (Standard Industrial Classification) code for their primary industry?
   i. US 8-Digit SIC: 73730000
   1. D&B Hoovers, “Cerner Corporation Company Summary”, Company Summary, July 2021, Pages 1-4
      a. Accessed through: D&B Business Browser
Question 4:

You would like to learn more about dogs, and you know that the right book can provide a good summary on this topic. Use the resources found on the 2.009 Guide (https://libguides.mit.edu/2-009) to answer the following questions:

A. Find a general book on dogs, available in the MIT Libraries. Provide a good citation for the book, including the library call # at the end of the citation and which library has the item (Dewey, Rotch, Barker, etc.) or if it is an eBook.
   a. BOOK
   b. eBook

B. To find more specific information, you want to read a scholarly article on the narrower topic of robotic guide dog.
   a. Robotic Guide Dog
      i. Use a database to search for an English language journal article on this topic published in 2010-2021. Provide a good citation for the article, and include the bibliographic database you used to find the citation.
         1. Compendex was used to find the following citation:
      ii. Does MIT have a print subscription to this journal for the year that the article was published? If yes, in which library is it held? Does MIT have access to an electronic version of this article?
         1. MIT has access to an electronic version of this article from 2016 onwards.
Question 5:

You want to make sure your design or project idea is unique before you take it to a company or customer for production. Check the patent literature, and find one granted (not an application) United States utility patent for a language translator or language translation system:

A. What is the patent title?
   a. Systems and methods for displaying foreign character sets and their translations in real time on resource-constrained mobile devices

B. What is the patent number? (Tip: numbers starting with D, e.g. D593812, are design patents, not utility patents. Numbers starting with the year, e.g. US20060201950, are applications, not granted patents)
   a. US8761513B1

C. Who is the assignee? The inventor?
   a. Assignee: Translate Abroad, Inc., Inventors: Rogowski, Ryan Leon; Wu, Huan-yu; Clark, Kevin Anthony

D. Provide at least one classification code assigned to this patent (number and name, example: 446/486: Amusement Devices: Toys/ Resilient toy or actuator, OR A63F9/00: Sports;Games;Amusements: Card, board or roulette games; indoor games using small moving playing bodies, miscellaneous games: games not otherwise provided for)
   a. G06F40/58 Use of machine translation, e.g. for multilingual retrieval, for server-side translation for client devices or for real-time translation

E. Where did you find this patent/what database did you use?
   a. Patent Scout and Espacenet to find classification