



**UNIVERSITI KUALA LUMPUR**  
**Malaysia France Institute**

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**FINAL EXAMINATION**  
**JULY 2010 SESSION**

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**SUBJECT CODE** : FWB 24102  
**SUBJECT TITLE** : WELD INSPECTION TECHNIQUE  
**LEVEL** : BACHELOR  
**TIME/DURATION** : 9.00 am – 12.00 noon  
(3 HOURS)  
**DATE** : 15 NOVEMBER 2010

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**INSTRUCTIONS TO CANDIDATES**

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1. Please read the instructions given in the question paper CAREFULLY.
  2. This question paper is printed on both sides of the paper.
  3. Please write your answers on the answer booklet provided.
  4. Answer should be written in blue or black ink except for sketching, graphic and illustration.
  5. This question paper consists of Section A and B. For Section B, answer two(2) questions only.
  6. Answer all questions in English.
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**THERE ARE 3 PRINTED PAGES OF QUESTIONS**

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**SECTION A (Total: 40 marks)**

**INSTRUCTION: Answer ALL Questions**

**Please use the answer booklet provided.**

**Q1.** What is *Visual Inspection* with respect to welding?

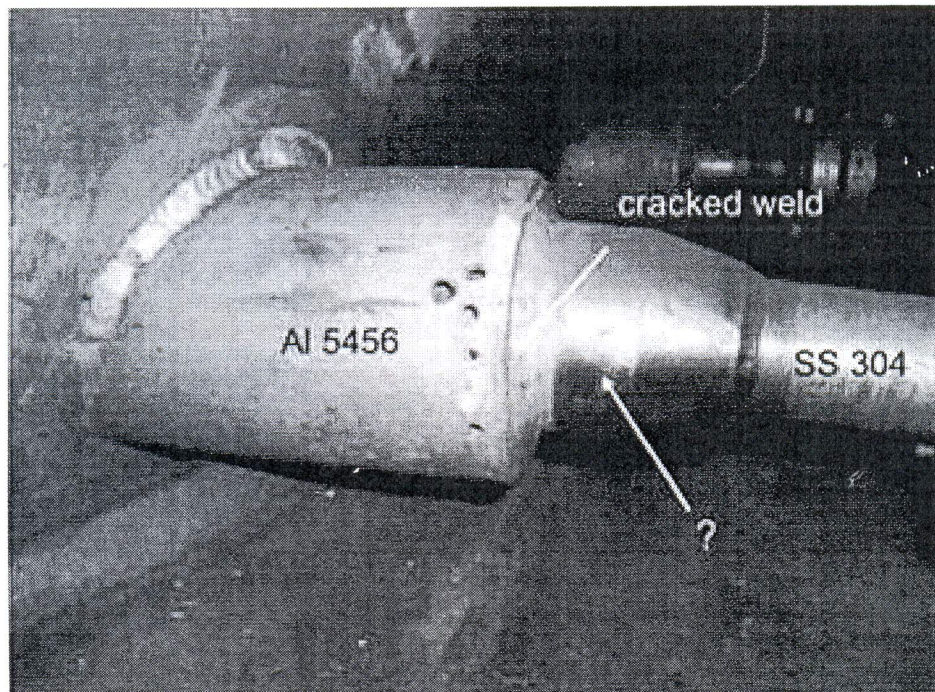
**Your explanation should detail out the followings:**

1. Visual inspection fundamental;
2. Visual inspection tools;
3. Its Importance;
4. Its purpose and benefits.

(40 marks)

**SECTION B (Total: 60 marks)****INSTRUCTION: Answer ALL questions.****Please use the answer booklet provided.**

- Q1. Illustration 1 below is a joint made on a (liquid) nitrogen tank carrier. We are required to repair the cracked weld. Would the *reduction pipe* be a *transition* material between Aluminum (Al 5456) and Stainless (SS 304)?"



**Illustration 1 - Cracked Weld in a Reduction Tube**

(20 marks)

- Q2. What are welding codes and standards, *When are they used, and how are they developed?*

(20 marks)

- Q3. What is the *coldest ambient temperature* allowed for welding carbon steel and stainless steel pipes and structure?

(20 marks)

**END OF QUESTION**