



UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION
JULY 2010 SESSION

SUBJECT CODE	: FWB 42902
SUBJECT TITLE	: WELDING MECHANIZATION
LEVEL	: BACHELOR
TIME/DURATION	: 9.00 am – 12.00 noon (3 HOURS)
DATE	: 15 NOVEMBER 2010

INSTRUCTIONS TO CANDIDATES

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 Sections A and B. Answer **ALL** questions.
 6. Answer all questions in English.
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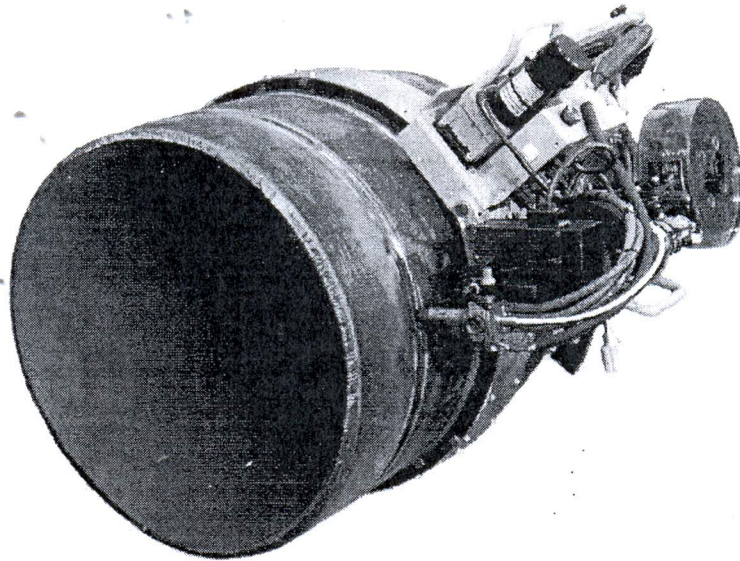
THERE ARE 2 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 40 marks)**INSTRUCTION: Answer ALL questions****Please use the answer booklet provided.**

- Q1. Illustration 1 below shows an Orbital Pipe Welding system. Explain what you know about this system and the *effect of mechanization* that have changed the manual process drastically.

Your explanation should stress the followings:

1. System fundamental;
2. The equipment and accessories;
3. Power sources, welding processes and operations;
4. Benefits.



(40 marks)

SECTION B (Total: 60 marks)

INSTRUCTION: Answer ALL Questions

Please use the answer booklet provided.

- Q1. If you are ready to *mechanize* your welding process, how do you begin? What do you look for?
- Q2. *Welding jigs and fixtures* are necessary in mechanized welding operations. The use of jigs, fixtures and positioners is usually desirable, for at least four reasons. What are they?
- Q3 Explain in detail the objectives of *mechanization* and/or *automation*.

END OF QUESTION