



UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION
JULY 2010 SESSION

SUBJECT CODE : FFD12101
SUBJECT TITLE : INTRODUCTION TO FABRICATION
LEVEL : DIPLOMA
TIME / DURATION : 12.30pm – 2.30pm
(2 HOURS)
DATE : 09 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 TWO (2) sections. Section A and B. Answer all questions in Section A. For Section B, answer four (4) questions only.
 6. Answer all questions in English.
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THERE ARE 3 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 60 marks)

INSTRUCTION: Answer ALL questions.
Please use the answer booklet provided.

Question 1

Write (T) for TRUE and (F) for FALSE in the box at the end of each statements.

	T/F
i. Shearing is normally done by fixed a top blade against a moving bottom blade.	<input type="checkbox"/>
ii. Vise grip welding clamps are used for clamping panels, pipe or bar stock together.	<input type="checkbox"/>
iii. One of the fabricator's tasks includes interpret the engineering drawing.	<input type="checkbox"/>
iv. Cold chisels may be used to prepare edges for welding	<input type="checkbox"/>
v. Forming refers to sheet materials being rolled, folded or spun into shape.	<input type="checkbox"/>
vi. Sheet, plate, bar, rod and wire are among the stock materials in the fabrication industry.	<input type="checkbox"/>
vii. Ferrous metals contain iron and are usually magnetic.	<input type="checkbox"/>
viii. Pinch rolls are used for rolling plate steel and the machines are power operated.	<input type="checkbox"/>
ix. Radial line development is typically used for cylindrical work.	<input type="checkbox"/>
x. Tolerance is the allowed variation (deviations) from the specified dimensions in finished work	<input type="checkbox"/>
xi. Solid bar is often call 'pipe'	<input type="checkbox"/>
xii. Duties of Sheet Metal Workers are to examine materials, parts or assemblies.	<input type="checkbox"/>
xiii. Standard vise grip pliers are supplied with either straight or curved jaws.	<input type="checkbox"/>
xiv. The soft head of chisel spreads under repeated hammer blows is called a mushroom.	<input type="checkbox"/>
xv. Rack and bar clamps are used in fabrication and/or repair small item	<input type="checkbox"/>

15 marks)

Question 2

Choose and fill in the blanks with the correct answer given

(Breaking, hard, greater, wedging, smaller, hardness, shearing, blunt, break off, softer)

A chisel cuts by a combined _____ (16) _____ and _____ (17) _____ action. To curl and _____ (18) _____ the chips readily, the cutting angle must suit the _____ (19) _____ of the metal being cut. The _____ (20) _____ the angle the less change there is of _____ (21) _____ the cutting edge. For _____ (22) _____ or tough materials, a _____ (23) _____ cutting angle 70° or more may be required. As less cutting power is needed for _____ (24) _____ materials, smaller cutting angles down to 30° may be used. _____ (25) _____ cutting angles require the chisel to be re-sharpened more often.

(10 marks)

Question 3

(a) Name three (3) types of folding machine commonly used?

(6 marks)

(b) What is the best way for a fabricator to minimize wastage for large quantity work?

(5 marks)

(c) Name the four (4) types of file and their applications.

(8 marks)

(d) Name the five (5) common cutting processes

(10 marks)

(e) Name three (3) cutting processes which are similar to a shearing process.

(6 marks)

SECTION B (Total: 40 marks)

INSTRUCTIONS: Answer four (4) questions only

Please use the answer booklet provided.

Question 1

Draw and label a schematic oxy-acetylene welding process.

(10 marks)

Question 2

Draw and label a plasma arc cutting process.

(10 marks)

Question 3

Draw and describe briefly a 'pinch-type roll'.

(10 marks)

Question 4

Draw and describe briefly a 'pyramid-type roll'.

(10 marks)

Question 5

Draw and label a complete 'drill bit'.

(10 marks)

END OF ANSWERS