. CONFIDENTIAL

SET A

UNIVERSITI KUALA LUMPUR
Malaysia France Institute

FINAL EXAMINATION

JULY 2010 SESSION

SUBJECT CODE : FGD 22202

SUBJECT TITLE : CNC TECHNOLOGY

LEVEL : DIPLOMA

TIME / DURATION : 4.00pm – 6.00pm
(2 Hours)

DATE : 08 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 one (1) question only.

6. Answer all questions in English.

THERE ARE 5 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 60 marks)

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

Question 1

Briefly explain this G Code.

a)   G 02

(2 marks)

b)   G 01

(2 marks)

c)   G 03

(2 marks)

d)   G 90

(2 marks)

e)   G 00

(2 marks)

Question 2

Briefly explain this M Code.

a)   M 30

(2 marks)

b)   M 08

(2 marks)

c)   M 03

(2 marks)

d)   M 05

(2 marks)

e)   M 06

(2 marks)

Question 3

a)   Briefly explain what is the Absolute System .

(2 marks)

b)   Make a coordinate using Incremental System by using *Figure 1*.

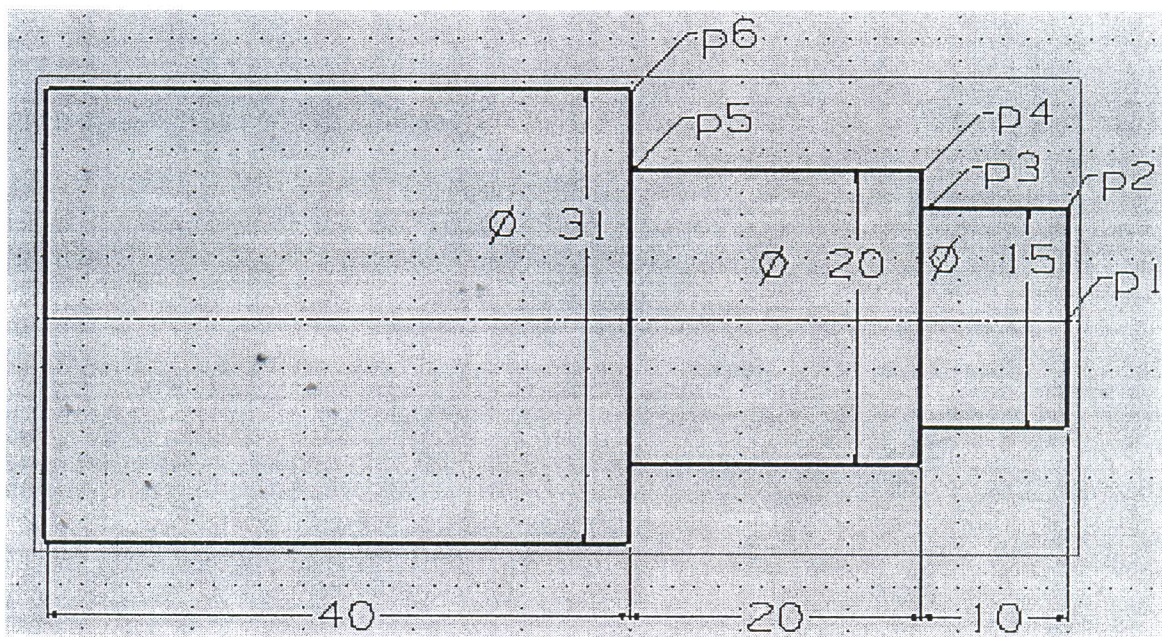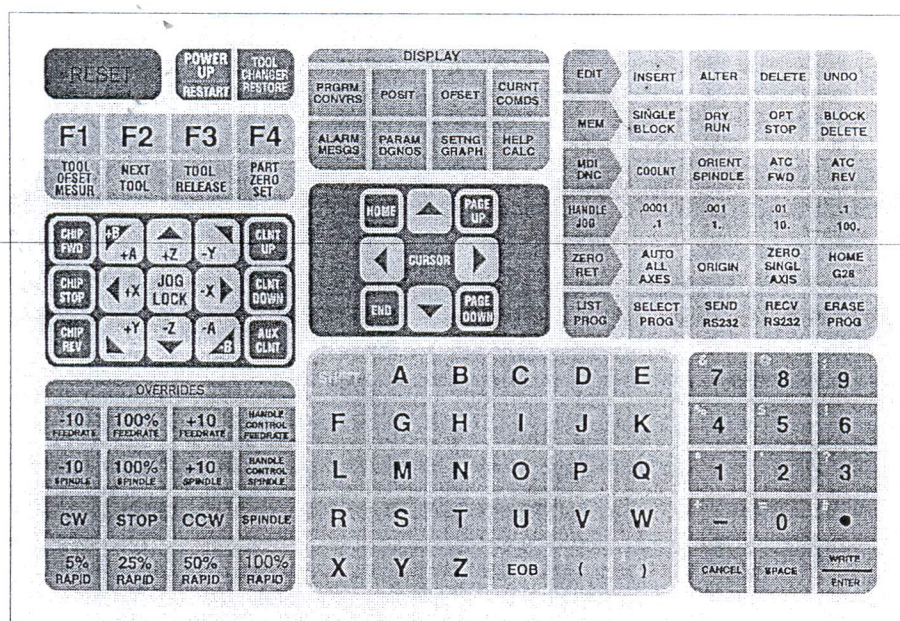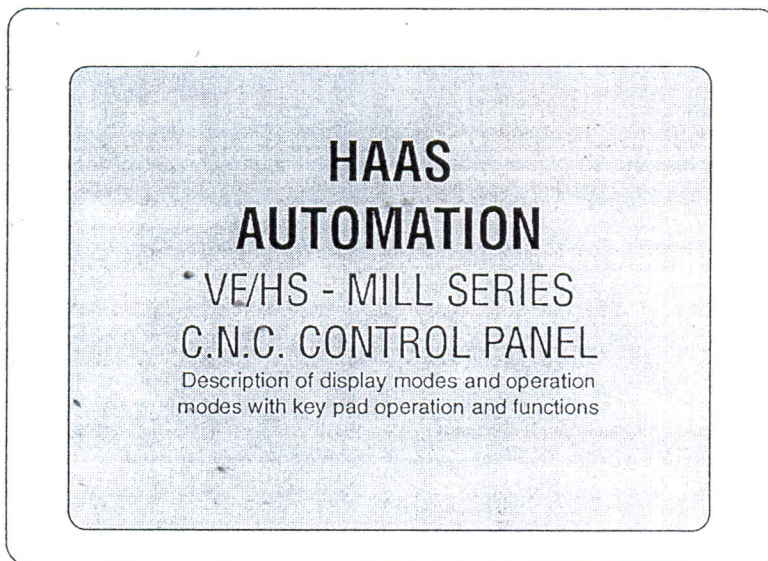(8 marks)

Figure 1

Question 4

Explain about safety at CNC Lab.

   i)   Personal safety

   ii)   Lab. Safety

   iii) Machine Safety

(10 marks)

Question 5

a)   Briefly explain what is the Work Coordinate.

(4 marks)

b)   What is the different between Machine coordinate and Work coordinate?

(4 marks)

c)   What is the function of ' **MDI** ' Mode?

(4 marks)

d)   Explain briefly how to make a setting for tool (eg. Tool no. 4)

(8 marks)

SECTION B (Total: 40 marks)

INSTRUCTION: Answer only ONE question.

Please use the answer booklet provided.

Question 6

Write down the full program of the part in *figure 2*.
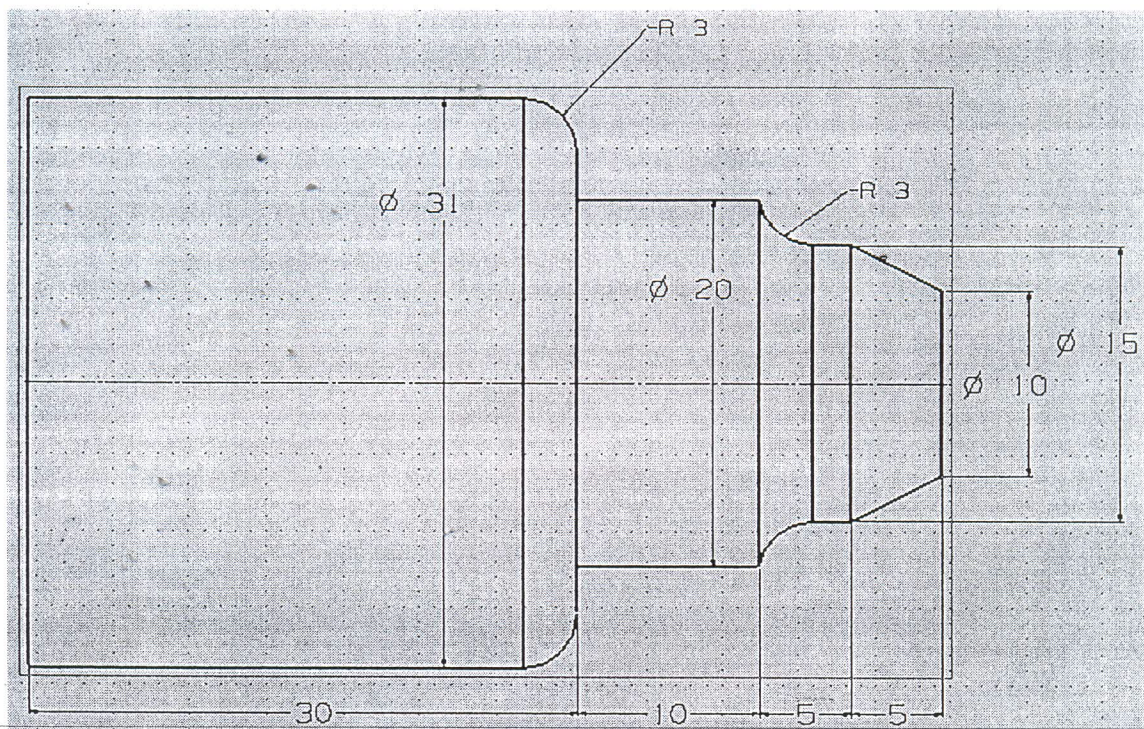
CNC LATHE MACHINE

(40 marks)

Figure 2

Question 7

Write down the full program of the part in *figure 3*.
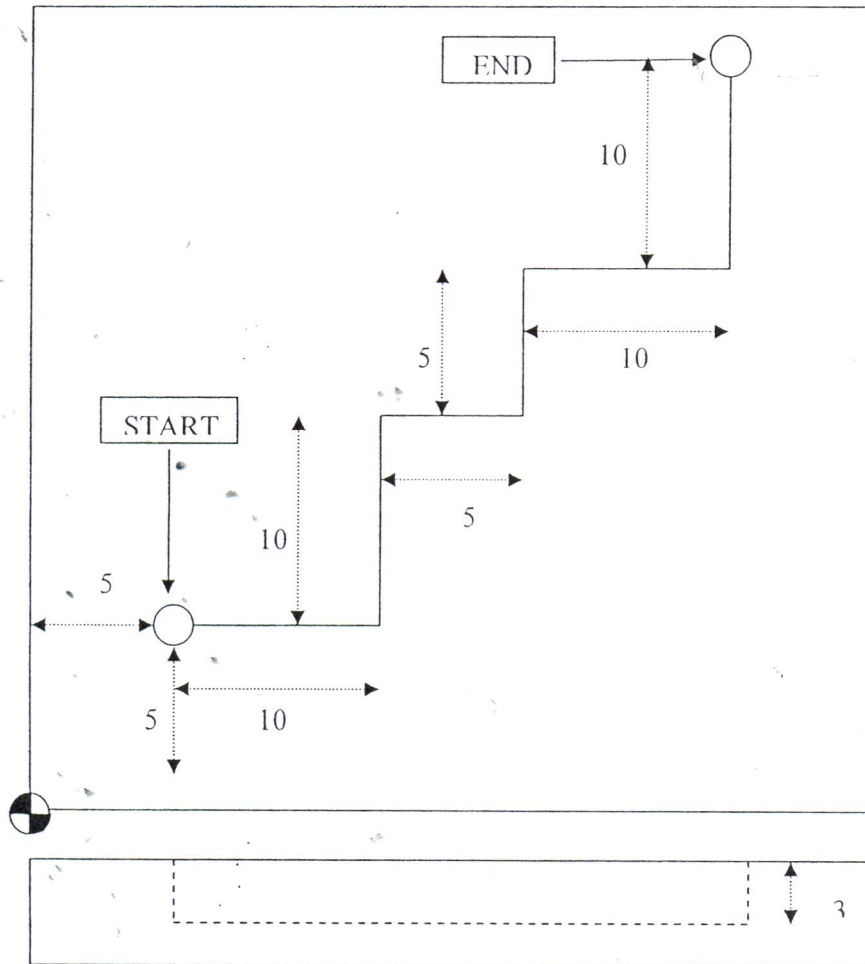
CNC MILLING MACHINE

(40 marks)

Figure 3

i)   Used endmill 10mm.

ii)   Depth of groove 3mm.

END OF QUESTION