



**UNIVERSITI KUALA LUMPUR
Malaysia France Institute**

**FINAL EXAMINATION
JANUARY 2011 SESSION**

SUBJECT CODE	:	FGD 22202
SUBJECT TITLE	:	CNC TECHNOLOGY
LEVEL	:	DIPLOMA
TIME / DURATION	:	9.00 am – 11.00 am (2 Hours)
DATE	:	08 MAY 2011

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 two (2) question only.
 6. Answer all questions in English.
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THERE ARE 6 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 M Code.

- a) M 01 (2 marks)
- b) M 06 (2 marks)
- c) M 08 (2 marks)
- d) M 30 (2 marks)
- e) M 98 (2 marks)

Question 2

Briefly explain this G Code.

- a) G 02 (2 marks)
- b) G 04 (2 marks)
- c) G 28 (2 marks)
- d) G 91 (2 marks)
- e) G 98 (2 marks)

Question 3

- a) Briefly explain what is the Incremental positioning System .

(2 marks)

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

(8 marks)

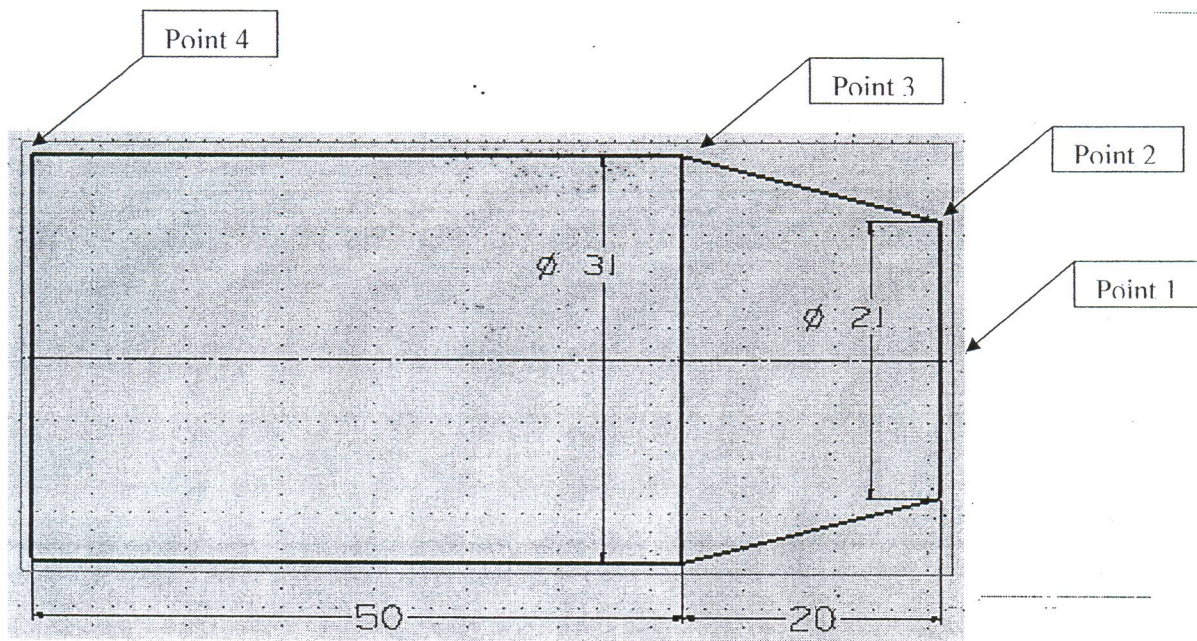


Figure 1

Question 4

On the CNC Machine Operation, explain how to execute the machine until it is ready to used by the user.

(10 marks)

Question 5

Briefly explain what is the Work Coordinate System (WCS).

(4 marks)

Question 6

Explain the difference between Machine coordinate and Work coordinate?

(4 marks)

Question 7

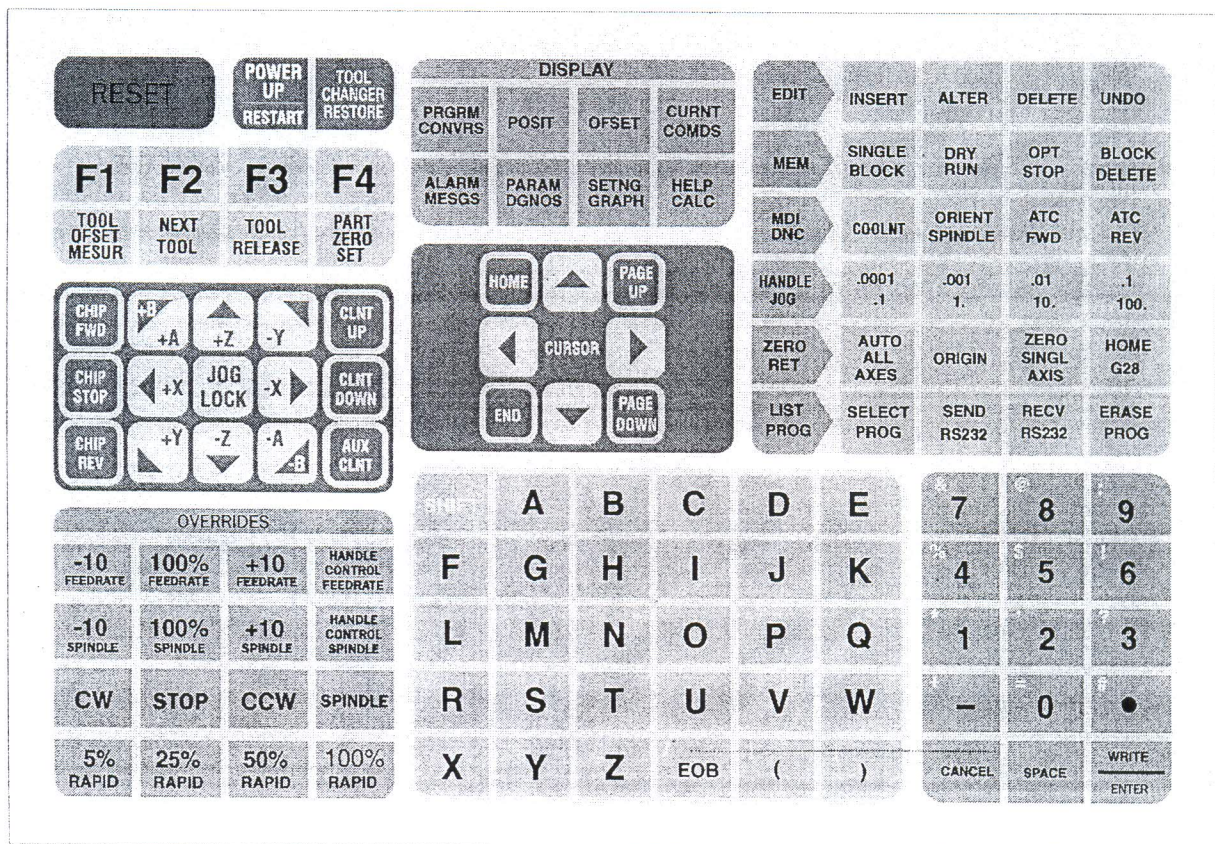
What is the function of 'EDIT' Mode?

(4 marks)

Question 8

Explain briefly how to make a setting for tool (eg. Tool no. 2) for CNC Milling Machine by using the diagram below.

(8 marks)



SECTION B (Total: 40 marks)

INSTRUCTION: Answer only TWO question.

Please use the answer booklet provided.

Question 9

Write down the full program of the part in figure 2.

CNC LATHE MACHINE

(20 marks)

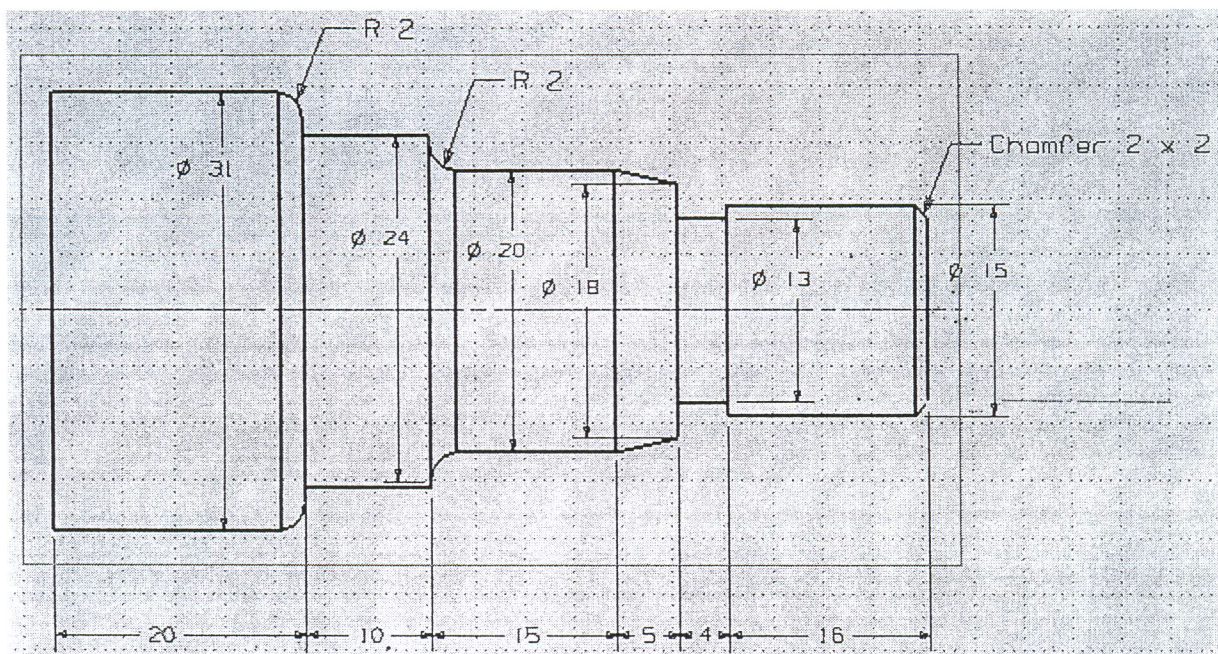


Figure 2

Question 10

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

CNC MILLING MACHINE

(20 marks)

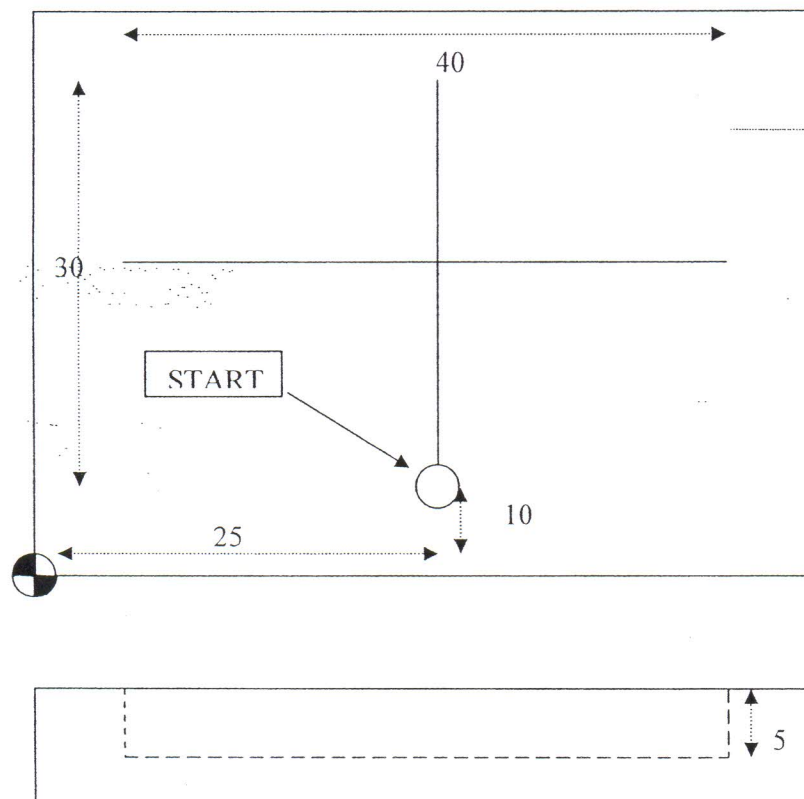


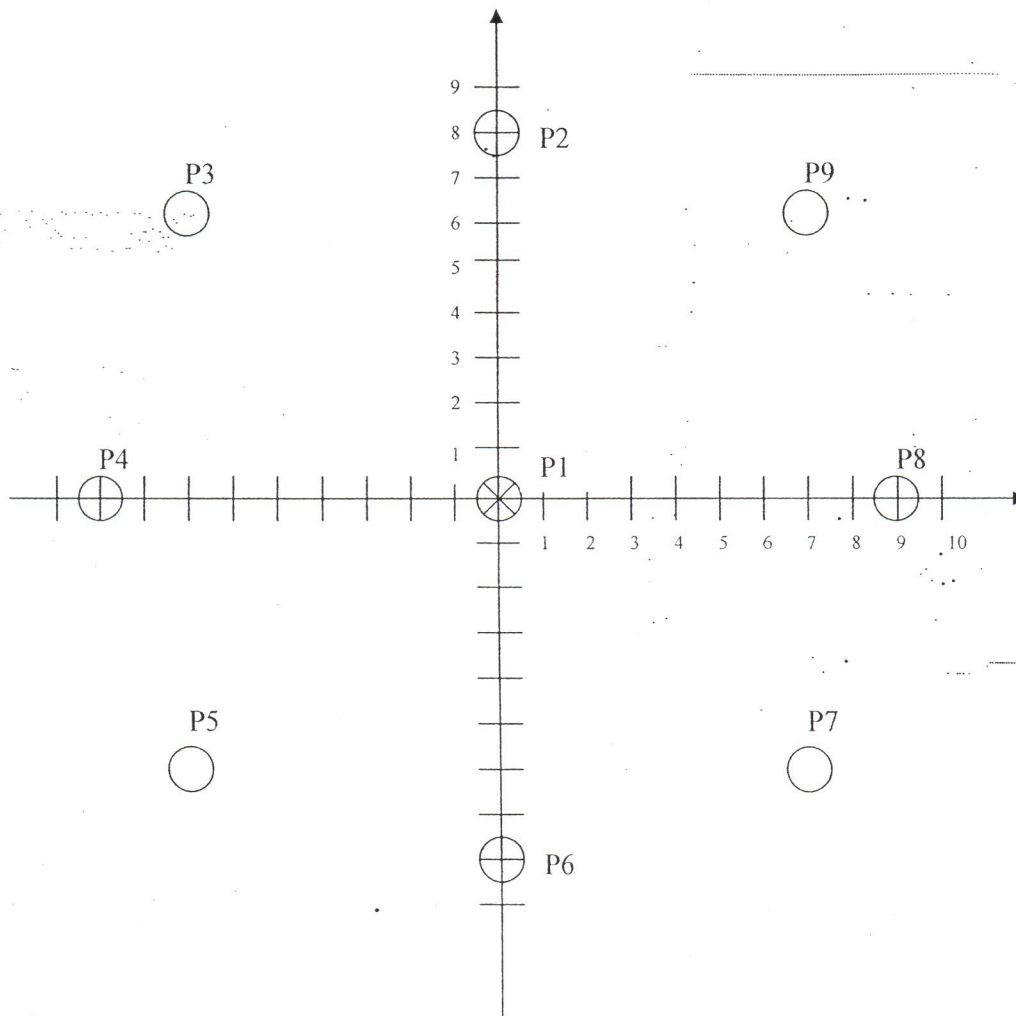
Figure 3

- i) Used endmill 10mm.
- ii) Depth of groove 5mm.

Question 11

Write down the coordinate notations for the points on the drawing in ABSOLUTE and INCREMENTAL from the origin P1 until P9.

(20 marks)



END OF QUESTION