UNIVERSITI KUALA LUMPUR
MALAYSIA ITALY DESIGN INSTITUTE

FINAL EXAMINATION
MARCH 2026 SEMESTER

COURSE CODE	:	PMB 20504
COURSE NAME	:	CADCAM AND CNC
PROGRAMME NAME	:	BACHELOR OF ENGINEERING TECHNOLOGY (MANUFACTURING SYSTEM)
DATE	:	23 JUNE 2026
TIME	:	2:00 PM – 5:00 PM
DURATION	:	3 HOURS

INSTRUCTIONS TO CANDIDATES

1. Please CAREFULLY read the instructions given in the question paper.
2. This question paper has information printed on both sides of the paper.
3. This question paper consists of TWO (2) sections; Section A (CATIA) and Section B (MASTERCAM).
4. Answer ALL questions in Section A and B.
5. Section A and B answers to be done in the computer.
6. Answer all questions in English Language ONLY.

THERE ARE 2 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.

SECTION A (Total: 50 marks)

INSTRUCTION: Answer ALL questions

Do the following:

(i) Create your folder at the Desktop. Name your folder as <Your ID> <Name>, e.g. 12215204444 XXX
(ii) Save all your answers in this folder.
(iii) Name your file as 'Your ID'_'Question No.', e.g. 12215XXXX_Question XX
(iv) Submit your files in VLE>Folder: FINAL EXAM_SUBMISSION.

Question 1

Using CATIA software, create the part shown in Figure 1.

All dimensions are in mm.

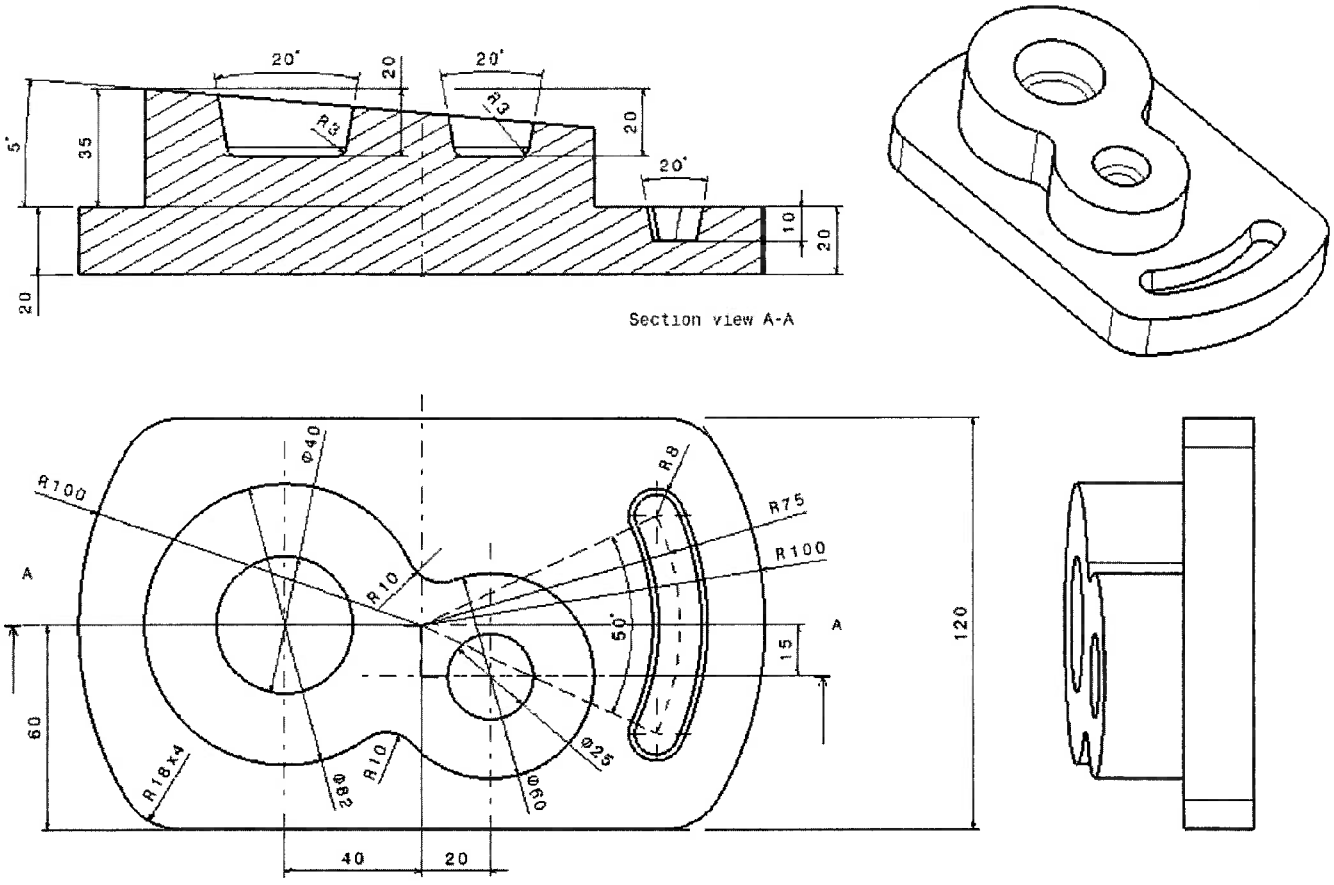


Figure 1 Part Model

(50 marks)

SECTION B (Total: 50 Marks)

INSTRUCTION: Answer ALL questions

Question 2

Using the model created in **QUESTION 1**, you are required to:

(i) Use Mastercam software to create appropriate toolpath for the part. Use appropriate cutting tools and cutting parameters.

(ii) Simulate the toolpath to machine the surface model.

Marks will be awarded based on the following:

(a) Appropriate selection of cutting tool path, cutting tools and cutting parameters.

(40 marks)

(b) Surface quality

(10 marks)

END OF EXAMINATION PAPER