QUESTION No. 1

Three incomplete orthographic views and three pictorial views of an angle bracket used to support a rectangular duct are given.
(i) By projecting lines from the end elevation and plan, and making use of any given dimensions, complete the front elevation of the bracket as indicated by the arrow. Include hidden details.
(ii) Show the hidden details of the two rectangular holes in the end elevation and plan.

Label your front elevation in block letters. 18 marks
QUESTION No. 2

Three orthographic views and an oblique projection of a vee-block used to support round bars are shown. To the dimensions given, complete the isometric projection of the vee-block started below.

18 marks
QUESTION No. 3

(i) The drawing shows a clock on a stand. It is made up of different lines and shapes. Within the given guide lines, write down in block letters, the names of the following parts of the circle:
- line KO
- line MN
- line PQ
- area PQ
- area ROS
- curved line XN
- the perimeter of the circle.

(ii) Write down the name of the shape bound by EFGHIJ. 14 marks

QUESTION No. 4

The figure below shows the logo of a company selling boat equipment called Arbor Navigation. You are required to draw the logo consisting of the two letters A and N using the following instructions:
(a) to draw letter A: on line XX, start by constructing a triangle PQR with a vertical height of 80mm and base angles of $55^\circ$ and $80^\circ$ respectively. Finish the letter using the given dimensions.
(b) to draw letter N: on the same line XX, start by constructing a triangle LMN where MN is 70mm long, angle N is $55^\circ$ and LM is 81mm long. Finish the letter using the given dimensions. 18 marks
QUESTION No. 5

A pictorial view and an incomplete front elevation of a special key having the shape of an octagonal prism and used to adjust the spoiler of a sports car are shown. Ignoring the handle,
(i) draw the plan of the key by constructing a regular octagon on the given base BC.
(ii) Complete the front elevation.
(iii) Draw the development using the given start lines.

16 marks

QUESTION No. 6

Some of the buses in Malta have passenger seats facing each other. A prohibition sign is required on these buses which informs passengers that they must not rest their feet on the seats in front of them.
(i) Draw preliminary freehand sketches to develop the above idea.
(ii) Using your sketches and with the help of drawing instruments, make a final drawing of a prohibition sign to inform passengers not to put their feet on the seat in front of them.

Note: Marks will be given for the correct type of the sign and for the use of the right colours.

16 marks

PRELIMINARY SKETCHES

PROHIBITION SIGN