

AN ROINN OIDEACHAIS

LEAVING CERTIFICATE EXAMINATION, 1970

ART AND DRAWING

MECHANICAL DRAWING AND DESIGN
PASS

MONDAY, 22nd JUNE - MORNING, 9.30 to 11.30

INSTRUCTIONS

- (a) Candidates may take Section I or II but not both.
- (b) The use of drawing instruments and tracing paper is allowed. Printing and pattern making materials may be used.
- (c) The number of the question must be distinctly marked by the side of the answer.
- (d) Questions marked (*) have accompanying diagrams.

SECTION I - (100 marks)

ONE QUESTION ONLY TO BE ATTEMPTED

1. Design a poster for one of the following:- "Help the Homeless", "Plant a Tree", "Tidy Towns". Include such lettering as you think appropriate. Work as large as possible.

2. Design a decorative wall-hanging and state the materials and technique you think suitable to your design. Base your design on one of the following:- Autumn colours, Rainbow, Sunburst, Pale Moon.

3. Design a pattern suitable for Christmas wrapping paper. Any suitable technique may be used. Complete as much as possible.

4. Design the cover (10" by 8") for a school magazine suitable for printing as a lino-cut, screen print, or with stencils. Two or three colours may be used. The title of the magazine may be one word such as:- ACTION, PRINT, REPORT, STUDY, etc.

5. Draw with a lettering pen, pens, or brush, the following quotation:-

There is a tide in the affairs of men,
Which, taken at the flood, leads on to fortune;
Omitted, all the voyage of their life
Is bound in shallows and in miseries,
On such a full sea are we now afloat,
And we must take the current when it serves,
Or lose our ventures.

Shakespeare.

SECTION II - (100 marks)

THREE QUESTIONS ONLY TO BE ATTEMPTED

(All questions carry equal marks)

*1. The diagram shows the plan, elevation and end view of a bracket. Make a freehand pictorial sketch of the bracket, in good proportion.

Your drawing should be not less than 4" in its greatest dimension.

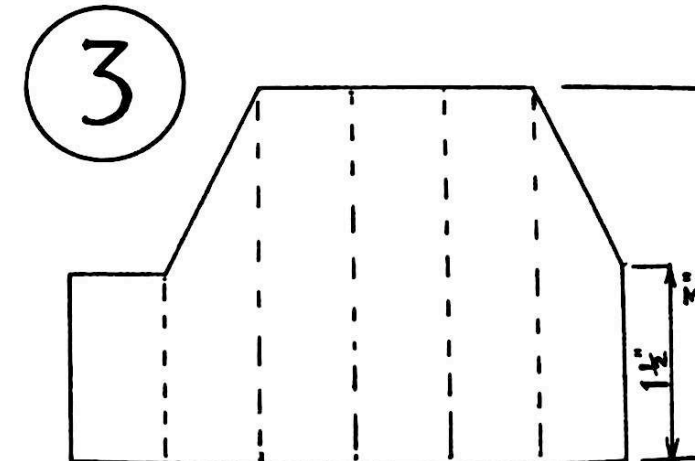
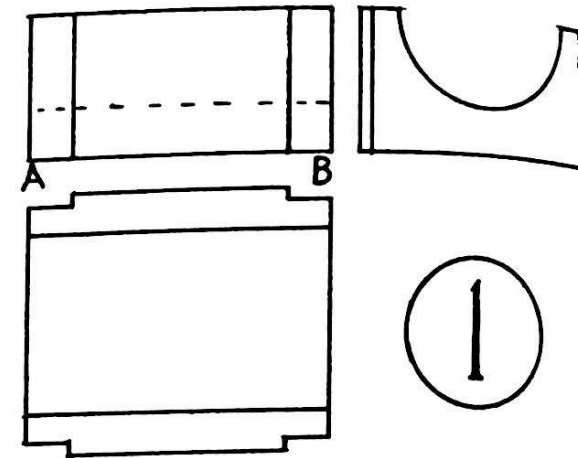
*2. Draw a new elevation of the bracket shown in Fig. 1. upon a vertical plane which makes an angle of 30° with the horizontal edge AB. Use your own dimensions.

*3. The diagram shows a development of a regular hexagonal pipe of $\frac{3}{4}$ " side. Part of the top of the pipe has been cut off. Draw the pipe in its finished form in orthographic projection. This should include elevation, side elevation, and plan.

*4. The diagram shows the corner of a regular octagonal table mat. Using drawing instruments, show how to construct the angle at A. Show also how you would transfer this angle to B, using drawing instruments.

*5. Draw a geometrical border pattern for a circular table mat 10" in diameter. The border is 3" wide, measured from the outer edge of the table mat.

(For diagram ④ see over)



AN ROINN OIBEAČAIS

SCRÚDÚ ARDCEAISTIMHEARAČLA, 1970

EAIAÍH AŽUS LÍHIOČT

LÍHIOČT MHEICHTIÚIL AŽUS SRÉASČÓIRIÚ PAS

DÉ LUATH, MHEICHTIÚ 22 - MAIBH 9.30 GO DCI 11.30

CREORAČA

- (a) IS CEADAÍTE D' IARRÉDORÍ COĞAĐ AS ROINN I NÓ ROINN II AČ NÍ CEADAÍTE COĞAĐ ASCU ARAON.
- (b) IS CEADAÍTE UIRLISÍ LÍHIOČTA AŽUS RIANPÁIRÉAR A ÚSÁIB. IS FÉIBIR IDAIR PRIONČÁLA AŽUS IDAIR BÉANCA PACRÚH A ÚSÁIB.
- (c) NÍ MÓR UITHIR NA CEISTE A SCRÍOB GO SOILÉIR LE NAIS AN FHEASRA A ĐAĐANH LÉI.
- (d) ĐAĐANH LÉARÁIBÍ LEIS NA CEISTEANNA A ĐFUIL RÉILCÍH (*) ROMPU.

ROINN I - (100 MARC)

ĐAN AČ CEISTE AMÁIH A ĐÉANAM

1. SRÉAS A ĐÉANAM LE HAĞAIB POSTAEIR DO ČEANN AMÁIH BÍOB SEO A LEANAS: - "CABRAIĞ LE ĐAOINE AČA ĐAN CÍE", "CUIR CRANN", "ĐAILTE SIAČTĤARA". CUIR ISCEAD CIBÉ LICREOIREAČT A ĤEAS TÚ A ĐEIT CUI. BÍOB AN SRÉAS ČOĤ MÓR AŽUS IS FÉIBIR.

2. SRÉAS A ĐÉANAM DO ČAIPÉIS ĤAISIÚIL BALLA AŽUS NA ĤIBAIR AŽUS AN CEICĤOČT A ĤEASANĤ TÚ A ĐEIT OIRIÚAČ DO DO SRÉAS A LU. DO SRÉAS A ĐUHÚ AN ČEANN AMÁIH BÍOB SEO A LEANAS: ĐAČANNA FÓĤAIR, ĐOĐA ĐAISTÍ, SCAL SRÉINE, SEALAC ĐÁITEAČ.

3. SRÉAS A ĐÉANAM DO PACRÚH A ĐEAD OIRIÚAČ DO LÍHIOČAR BEARRÁH HOLLAS. IS CEADAÍTE AN CEICĤOČT AČ OIRIÚAČ A ÚSÁIB. AN OIREAD ĐEH SRÉAS AŽUS IS FÉIBIR A ČRFOČHÚ.

4. SRÉAS A ĐÉANAM DO ČLÚAČ (10" FAOI 8") LE NAĞAIB IRISLEABAIR SCOILE AŽUS É A ĐEIT OIRIÚAČ ČE NA ČLÓĐUALAĐ MAR LÍHIOČEARRAĐ, MAR PRIONČÁIL HOGAIRA NÓ LE SCIONSAIL. IS CEADAÍTE ĐÁ ĐAČ NÓ ČRFOČHÚ A ÚSÁIB. IS CEADAÍTE FOCAL AMÁIH ĐÁ BÉITIB DO A ÚSÁIB MAR ČEIBEAL AN IRISLEABAIR: ČOĤ, ČLÓ, ČUARASCÁIL, SCÁIBÉAR 7 RL.

5. ČARRAINĐ AN VÉARSA SEO A LEANAS LE PEANN NÓ LE PÍH NÓ LE SCUAB: -

DO ĐEASAS COIS ČRÁ IS ČONAIČEAS AN SÁILE AĐ LÍONAĐ - NA ČONĤA ĐO ČEANN NA ĐEANN IS NA ĐEANN AĐ ČEADČ ĐUH CÍRE. SĤAIOIĤIOS ĐUR MAR SĤH ĐÚHĤH I ĐCÚS AN ČSAOIL. SEASAIMĤO COIS ČRÁ NA BEAČA IS ČFMIB AN SÁILE AĐ LÍONAĐ - ČONĤA NA MBLIAN NA ĐEANN IS NA ĐEANN AĐ ČEADČ ĐUH CÍRE.

C. Ó CONĞAILE.

ROINN II - (100 MARC)

ĐAN AČ ČRÍ ČEISTE A ĐÉANAM

(ČÁ AN MARC ČÉANNA AĐ ĐUL DO ĐAČ ČEISTE)

*1. ČAISPEÁĤAR BONĤÉLÓ, I ĤGEARČLÓ AŽUS SĤIOSČLO BRAIC SA LÉARÁIB. SCEITSE PICCIÚRČA SAORLÁĤE A ĐÉANAM ĐEH BRAC AŽUS COIĤEAS MAIT A ĐEIT ANĤ. NFOR ČÓIR ĤIOS LÚ NA 4" A ĐEIT SA COISE IS ĤÓ ĐE DO LÍHIOČT.

*2. ĤGEARČLÓ ĤUA ĐEH BRAC A ČAISPEÁĤAR I ĐFFOR I A ČARRAINĐC AN PLÁHA ČEARTIĤEARRAČ A ĐÉANANĤ UILLIĤH 30° LEIS AN ĤHEALL COČROMÁNAČ AB. FEIĐH A ĐAINE AS DO ČOISÍ FÉIH.

*3. ČAISPEÁĤAR FORBAIRT PÍOPA RIALTA HEICSEAGÁHAIĞ A ĐFUIL 1/2" NA ŠLIOS SA LÉARÁIB. ČÁČAR ČAR ÉIS CUIB ĐE ĐARR AN PÍOPA A ĐEARRAĐ AMAČ. ČARRAINĐ AN PÍOPA NA ČRUC ČRFOČHAIČE I ĐCEILĐEAN ĐRONUILLÉAČ. ĐA ČÓIR AN Č-ĤGEARČLÓ, AN SĤIOSČLÓ AŽUS AN BONĤÉLÓ A ĐEIT ANĤ.

*4. ČAISPEÁĤAR COIRĤÉAL ĐE ĤACA RIALTA OČTASĤAČ BOIRĐ SA LÉARÁIB. AŽUS UIRLISÍ LÍHIOČTA A Ĥ-ÚSÁIB AĐAC, ČAISPEÁIH CONAS AN UILLIĤH AĐ A A ČÓĐÁIL. ČAISPEÁIH ČOĤ MAIT CONAS A Đ'AISTREOFÁ AN UILLIĤH GO B AŽUS UIRLISÍ LÍHIOČTA A Ĥ-ÚSÁIB AĐAC.

*5. PACRÚH ĐEOMÉADRAČ CIUĤAISE DO ĤACA BOIRĐ ČIONCLAIĞ A ĐFUIL 10" NA ČRASČOĤAS A ČARRAINĐC. ČÁ AN ČIUĤAIS 3" AN LEIČEAD AŽUS I A CONAS Ó ĤHEALL SEAČTARAČ AN ĤACA BOIRĐ.

(FÉAČ LÉARÁIBÍ 1 AŽUS 3 ČALI)

