GUMON STUDIES
Readirg

## READING PASSAGE 1

## You should spend about 20 minutes on Questions 1-13, which are basco on lieading Passage 1 below.

## Sheet glass manufacture: the float process


 this treomes a nuoleen mass that hardens when showly noleci. The first siscessful menhod

 unblem:shed, with a 'lire furish'. Howeve, the process took a long tire and was labous taterisive.
 Couking fre a methor of making it somunususid The liest continuous silbom process invalved squeezing molten elass through wo hol follers similat to an old mingle. This allowed gass of








 below the :emperames of the montion glass abnut ispanci The kes; mena for the ioh was t: .







 millametle gilss.

 $\pm 10!, 060$ a morth, betire the piant proxiced any usable glass. Turthemore, ance they surceeded :a raking corketabie tlat g̣lass. the machite was turned off for a su vice to puepare
 get the provess right again. They dinally sucemed in 1959 and there are now thon plants all oven the warld, with each able to pronher around 1000 tuns of glase every day, neratop tor arented lis years.



 continuously th the fieat bath, and from there to a coatiog zone and finally a heat reatment

 dramatically. from a sirgle thickness of 6.8 mm to a sange from sub-millimetre tu 2.5 mra, from a riblon trequently marred by melesions and bubbles to almost aptical perfection. Tar ensure the luphest oundery, insyecrion takes flace it every stage. Oncasionally, a bubble is nor
 the plase ribion. Automated on. litue inspection dues two things. Firstly, it ceveals prucess

 lebible to see Secondly, it erables computers downstream to sreer cutrers armund flaws
Float glass is suld hy the square metre. and at the hinal stape compurirs translate customer reduirements anto patrents of culs designed or minimuse wase.

Questions 1-B
Complete the table and diagram delow.

Choose NO MORE THAN TWO WORDS from the passage for each answer.
Write your answers in boxes $1 .-8$ or yulir answer sheet.
Early methods of producing flat glass

| Method | Advantages | DIsadvantages |
| :---: | :---: | :---: |
| $1 . . . . . . . . . . . . . . . . . . . . ~$ | Glass remained 2. $\qquad$ | - 5low <br> - 3 |
| Ribbor | - Could produce glass sheets of varyieng 4 <br> - Non-stop process | - Glass was 5 $\qquad$ <br> - 20\% of glass rubbed away <br> - Machines were expensiva |

## Pilkington's float process



Test 2

## Questions 9-13

Do the foilowing statements agree with the information given in Reading Passage 1? for boxes 9-13 on your answar sheet. write

TRUE if the statement agroes with the ufformalion
FAL SE if the statemont contradicts the information
NOT GVEN if fhore is no information on this
9 The metal used in the float process had to have specific properties.
10 Pilkington invested some of his own money in his float plant.
11 Pilkington's firsi full-scale plant was an instant commercial success.
12 The process invented by Pikingion has now been improved.
13 Computers are better than humans al detecting faults in glass.

## READING PASSAGE 2

You should spend about 20 mimutes on Questions 14-26, which are Dased on Reading Passage 2 on the folfowing pages.

Questions 14-17
Readirg Passage 2 has six paragraphs. A-F.
Choose the correct heading for paragraphs B and D-F from the list of headings below.
Write the correct inumber, $j-j x$, in boxes 14-17 on your arlswer sheet.

## List of Headings

i Predicling climatic changes
ii The relevance of the Little lce Ago today
ill Hows culies contribute to climate change
iv Human impact on the climate
v How past climatic conditions can be determined
vi A growing need for weather records
vii A study covering a thousand yoars
vilf People have always responded to climate change
ix Enough food at last

| Example <br> Paragraph A | Answer <br> vlli |
| :--- | :--- |

## 14 Paragraph B

Example
Paragraph C
Ariswer
$v$

15 Paragraph D
16 Paragraph E
17 Paragrapti F

## THE LITTLE IGE AGE

 shilts, out, be"cre lemtark on ;hat, let me provice a nistorical concex. We tera to thuk $0^{\circ}$ clirrate - as uoposed to weather - as scrmething urichanging yot humanity


 years ago, with dazz ing oppol. nism They ceve oped strategins rigr surv wing lia'sh drought cifles, deca:des of heavy raintall or tiaccustmed cold; adopeed :giculture and stock-rising, which revolu"onisod iurian Ife; anc foundec the world's tirst ore-industria div l'sutions in F.gyot. Wesorotamia and the dimerices. But :re price of suoden c imate crange, in arrine, disease and sillering, was often righ.

B The Littie Ice Age lastec from 'cugnty' 1300 un: I the made of the rireterenth cent.ry Ony lwo centures ado. Europe Experierced a cricle of gitlerly cond


 mportan; context to the current unprececenied griobal ;rarming the litte 'ce Agr. was tar "cma dees lreeze, lowever rather an irregular seesaw o" ranid climatic



 storrss, or to periods of croughts igh: norlleasterly wi"ds, anic. stimn`气r reat veves.

C Reconslricarg the climate clanges of the past is extremely dizucint berause


 langely from dee ringe anc ice coles supplernented by a 'ew inconplete witen docourts we now have t undrecs of troo-rifig recerds from :rougtoul the



 gainy back ent years.
D. Iligtomes an maralive history ct ol mazernis dur ng the past tor centuries anc son'e of the ways in which people in Europe adapled to the r. Fort one descr bes
 Nowe whagers from Nor;hern Euripe exp orec norihorn seas, sellled Groenland.
 since the Crea; Ine Age, the ewore constint shifs in rairlal and termeralure. Moa~ Eurcipean temperalu'es we'e about the same as voa'y, perhaps singrtly coner.

E $11 \leq k n o w r$ that he Little Ice Age cooling began $n$ Greerilanc and the Arclic in abou: 120C. As the Arelic ice pack swead soutward. Norse vorages to the west we'e reroutad inte the cpen Allar lic, then erded ialoge:her. Storminass inereased in the iverth Aliant $c$ ard North Sea. Colder. rr.ch woter weatrer cescended on Europe oetwen 1315 ard 1319 , when thousands gerished ir a continent-wide "emine By 1400 the weatrer had become decidedly hore unpreciclable and
 decades of the ale sux : Onte anc cotus where focd zuoploss were a anostal concer o. Dred cod arts
 iemperatures forced tisting lleels 10 wink fi.itrer cittsogre the :3asques, Dutch, ard Erglish developec the fi'sl ottshore tisting teas adapted to a conder and sinrmior Alentc A gradual agrigultu'an rove ur or in tortherr Europe stenmed tram concerns over foud supplies at a ame of risiry popu'at ons The revolulici involved ntensive cormersial farriritg and the grovition arirr al fodder on land not prevousily used for cropes. The noreased produchvily from arrian's mise de
 mgans: 1amirio


 ocributed, to North America. Austral a Now Lealand and so..therr Atrica. Milicre of nectares of 'orest and woud'arid tel before the newcomers' axes

 earbon dioxide n;o the arrosptore, triggerirg for the first tirren hama-ly caused gotal warming -emperalures climbed more raphely in the werlieth cen: $\quad$ ry at: -re use of "cssi 1, els proliterated and areenho.se gas evels cor"irued la soar. The rise hás been ever sleeder since lles ea'ly 1980 d . T^e Litle loe Age nas given waty 15 a now ol rala reçine, rarkec by Frolenged and stesey warming At the
 1rec|.ent

Test 2

Questions 18-22
Complete the summary using the fist of words. A-1, betow.
Write fre correct retter, $A-1$, in boxes 18-22 on your answer sheet.

## Weather during the Little Ice Age

Documentation of past weather conditions is limited: our main sources of knowledge of conditions in the distant past are 18 ....................... and 19 ....................... . We can deduce that the Little lce Age was a time of $\mathbf{2 0}$ $\qquad$ rather than of consistent freezing. Within it there were some periods of wery cold winters, others of 21 $\qquad$
$\qquad$ and heavy rain, and yet others that bew 22 with no main at á

| A climetic shifts | B | ice cores | C |
| :--- | :--- | :--- | :--- |
| tree rings |  |  |  |
| D glaciers | E | interactions | F |
| weather obsenations |  |  |  |
| G heal waves | H | stormis | I |
| written accounts |  |  |  |

Questions 23-26

Classify the follwing events as occumng durng the
A Medieval Wimm Period
B Litlo tcc Age
C Ahodern Werm Period
White the correct tetter, A. B or $\mathcal{C}_{\text {, }}$ in hoxes 23-26 on your answer sheet.
23 Many Eluropeans started farming abroact.
24 The outting down of trees began to affed the climute.
25 Europeans discovered other lands.
25 Changes look place in lishing patterns.

## READING PASSAGE 3

You should spend about 20 munutes on Questions 27-40. which are based or Reading Passaye 3 on the following pages.

Questions $27-32$
Reading Passage 3 has six paragraphs, A-F.
Choose the correct heading for each paragraph from ihe fist of headings below.
Wrise the correct rumber, $i-$ will in boxes $27-32$ on your answer sheet.

## List of Headings

i The difficulties of talking about smells
ii The role of smell in personal relationships
iii Future studies into smell
iv The relationship tetween the brain and the nose
v The interpretation of smells as a factor in defining groups
vi Why our sense of smell is not apprecinted
vii Smell is our superior sense
viii The relationship between smell and feelings

27 Paragraph A
28 Paragraph B
39 Paragraph C
30 Paragraph D
31 Peragraph E
32 Paragraph F

## The meaning and power of smell

Thie sense of smalt, or oltaction, is poverfin' Cogicura dfeut us or a physicat,
 which suriounc us witheli being consciousif aware of remeir montance to us. it is oni, hitien the baculfy of smell is impared bi some reasorn that ve begin to reatige ithe


A A su'ver conducted by A"thnny Synoth at Mont‘eal's Cercornia University asked

 asacoisled with a cुoct experiense can bring a 'ush ci joy, wh le a foul codeur or one associaled with a bad merrory may ma<e us grimace win cisqusl. Respectenis "e 1"e surve' noted that rrany of tieir chactory likes and dislikes were based on

 bould generally censicer fragrant become disagrenatila for particularindwiuals The perceplic of smol, the'elore. cons s?s no: only of 1res sensation col the ordnus

6 Ofo, rs are sascesicnlial cues in soc al botdrg. Ore respondent to the g. remy


 lesl. wormand men mero atile 10 distirguns by smell alone chothing won by tre r

 iarrily memers betore being invulved in the test. but as the exjeriment revea ed


 'egard in w"tch snifell is hold 's 1 at. in corpa' se" wit^ is intiputance arrong

 certan arirt:is : : theusaros of smepls. and lo perweve odours wh ch are present only extrerrely sral suanclies
 irstarice carrc: be narreai in marry lancurates beazuse the soecific vocatuary



 Mplic:slicy: for ofac:ory research.





 aflected by odours and tow smells can be reas, rot appactively çiven the wonohysicat components Ouestions like these mean that interest in the pisychology of sirell is inexitably set so aty an "ncreasingly important role for researchers
 is culoural hence $i$ is a social a^d ristorical phenome^on Odnurs are invested with bultual val es: smiells tra: are considered to ve ofensive i^ some culiures ray te perlec: y acceptable n o!"ers. Tharefore. cur ser se of smell is a means
 intimate and ertot onally crarged experierces and the value that we attact to tresc cxperiences is inierorised oy the members of society, in a deeply porsonal way In?portanty, our ocrrincrly he de feelings about s'mells can helo dis:'ngu sn us from oller cultu'es $\mathrm{T}_{\mathrm{n}}$ e sludy of the cultural history ot smel is. therecre, in a vely eal sense, an messtigia: on no the essence of humat cu ture.

## Questioris 33.36

Choose the correct letter, A, B. C or D.
Write the correct letter in boxes 33-36 on your answer sheet.
33 According to the introduction, we become aware of the importance of smell when
A we discower a new smell.
B we experience a powerful smell.
C our ability lo smell is darmaced
D. we are surtounded by odours.

34 The experiment described in paragraph e
A shows how we make use of smell withoul realising it.
B demonsirales thal farmily members have a similar simell
C proves that a sense of smeil is leamt.
D compares the sense of smell in males and famales.

## Test 2

35 What is the writer doing in paragraph C ?
A supporting other research
E rraking a proposal
C rejecting a cammori belier
D describing limitations
36 What does the writer suggest about the study of smell in the atmosphere in paragraph E?
A The measurement of smell is becoming more accurate.
B Researchers believe smell is a purely physical reaction.
C Most smells are inoffersive.
0 Sirell is yet to be defined.
Questions $37-40$
Comptere the sentences below
Choose ONE WORD ONLY from the passage for each aroswer.
Whte your ariswers in boxes 37-40 or your arswer sheet.
37 Tests have shown that odours can help people recognise the $\qquad$ belanging to their husbands and wives.

38 Certain linguistic groups may have difficulty cescribing smell because they lack the appropriate $\qquad$
39 The sense of smell may involve response to $\qquad$ which do not smeld, in addition to obvious odaurs.

40 Odours reparded as unpleasant in certain $\qquad$ are not regarded as unpleasant in others.

## AGADEMIC READING



Hyouscore...

| 0.-11 | 1228 | 29.40 |
| :---: | :---: | :---: |
| you are unlikely to get an | you may get an acceptabe | yoas are likely to get an |
| acceptabie soore under | score under examination | areptable soore under |
| examilatoll conditions and we | conditions, but werecommend | examination conditions but |
| recommend that you spend | that youl think about having | remember that different |
| a lot of time improwing your | more practice or lessons | institutions will find different |
| English before you 13 ke IELTS. | betore you take IEL.FS | scores acceptable. |

