

MARK SCHEME for the October/November 2013 series

0460 GEOGRAPHY

0460/13

Paper 1, maximum raw mark 75

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

		2.
Page 2	Mark Scheme	Syllabus r
	IGCSE – October/November 2013	0460
The features of th	ne marking scheme	Cambr.
Each question car each sub section.	ries 25 marks. Candidates cannot earn above the	maximum marks available
	eme attempts to give guidance about the requiren	

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The features of the marking scheme

The marking scheme attempts to give guidance about the requirements of each answer and lists a number of responses, which will earn marks along with the general principles to be applied when marking each question.

It should be noted that candidates can earn marks if their answers are phrased differently provided they convey the same meaning as those in the mark scheme. THE CANDIDATES DO NOT NEED TO USE THE SAME WORDING TO EARN MARKS.

The notation 'etc.' at the end of an answer in the mark scheme signifies that there may well be other correct responses or examples that can be given credit. Providing the statement is true, relevant to the question asked and not repetition of a previous point made credit should be given.

A point made within one sub-section which is an answer to the question set in a different sub-section should not be given credit as each sub-section asks different questions which require independent answers.

The mark scheme uses semi colons (;) to separate marks and diagonals to separate alternative answers.

Levels of response marking is used for section (c) of each question.

Thus it is the quality of the response that determines which level an answer is achieved rather than the guantity of statements contained within it. However, once assigned to a level the mark achieved within that level is determined by the number of points made.

Levels 1 and 2 are distinguished by whether statements are simple (level 1) or developed/elaborated (level 2). A candidate can immediately enter L2 by making developed points without making any L1 statements. In order to achieve L3 a candidate must have already reached the top end of L2 - in addition his/her answer should have a clear and appropriate example and if the answer is place specific as well (7 marks). Highlight place specific detail.

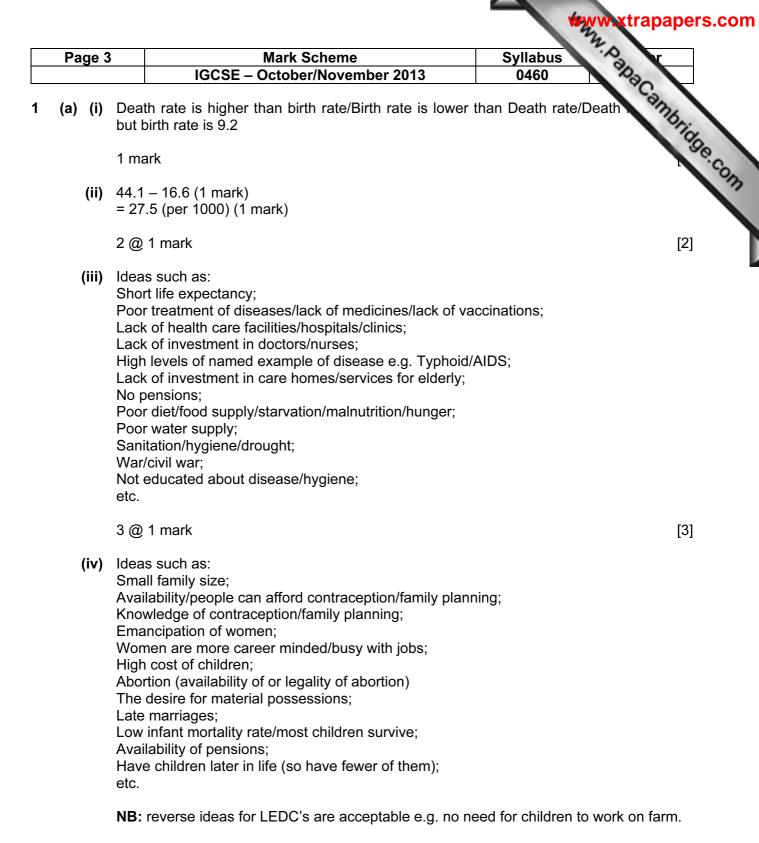
Where statements are assigned levels by the examiner this should be indicated by the use of L1, L2 and L3 next to the statements. A summary of the overall level and mark awarded should be written at the end of the answer. Ticks should **not** be used on answers that are marked using levels of response marking.

Summary:

Level 1 (1 to 3 marks): 1 simple statement (1 mark) 2 simple statements (2 marks) 3 simple statements (3 marks)

Level 2 (4 to 6 marks): 1 developed statement (4 marks) 2 developed statements (5 marks) 3 or more developed statements with e.g. (6 marks)

Level 3 (7 marks) 3 or more developed statements + named example with at least one piece of place specific detail.



4 @ 1 mark

[4]

Page 4	Mark Scheme	Syllabus Syllabus
	IGCSE – October/November 2013	0460 7030
ן ג ן ן	Ideas such as MEDC pyramid is likely to: have narrower base/less young people/less 0–4/less be less pyramid shaped/more evenly spread across a have wider top/apex/larger top/more old people/large have wider middle section/bigger middle section/more etc.	ages/more straight sided; amount of grey;
I	NB Could refer to MEDC or Zambia but account mus	t be comparative.
3	3 @ 1 mark	[3
 	Ideas such as: High dependency ratio; So people have to work harder to look after large Families (dev)/so there are more children to supp children (dev); Many children not educated/cost of providing educ more schools to be built (dev)lack of nursery places (Therefore literacy remains low/low skills levels or exa Cost of providing food/cannot afford food/lack of food Therefore starvation/malnutrition (dev); Lack of/cost of/difficulty of providing water; Stress or pressure on the working population; Money has to be spent on their healthcare needs/can If money spent on young the country can't afford to examples; Less chance of women being able to work;	ation/cannot afford education/need dev); imples (dev); /need to provide more food; n't afford to treat them;

Children abandoned/more street children/children involved in crimes or examples;

5 @ 1 mark or development

[5]

	ge 5		
		IGCSE – October/November 2013 0460	Pac
(c)	Lev	vels marking	anb,
	Sta	vel 1 (1–3 marks) atements including limited detail describing policies to reduce pendents.	numbers of your
	Use	<u>vel 2</u> (4–6 marks) es named example are developed statements describing policies to reduce numbers of you	
	(NE	B: MAX 5 marks if no named example)	
	Use Cor	<u>vel 3</u> (7 marks) es named example (e.g. China). mprehensive and accurate statements describing policies to reduce pendents, including some place specific reference.	e numbers of young
	Cor Gov	ndidates could refer to ideas such as: ntraception vernment incentives vernment sanctions	
	NB:	: the question is asking for a description of the policy not impacts of th	e policy. [7
			[Total: 25
'a)	(i)	Areas where people live/areas of housing.	[Total: 25
a)	(i)	Areas where people live/areas of housing. 1 mark	-
		Areas where people live/areas of housing. 1 mark A. Area B as there are more people living in 500 hectares/same siz HA compared with 4 per HA in A.	[1
		1 mark A. Area B as there are more people living in 500 hectares/same siz	[1
		1 mark A. Area B as there are more people living in 500 hectares/same siz HA compared with 4 per HA in A.	[1 red area/B has 7 pe
		1 mark A. Area B as there are more people living in 500 hectares/same siz HA compared with 4 per HA in A. NB: must be comparative	[1 red area/B has 7 pe
		 1 mark A. Area B as there are more people living in 500 hectares/same size HA compared with 4 per HA in A. NB: must be comparative B. Area A as redevelopment has taken place or B is described as old 	[1 red area/B has 7 pe
	(ii)	 1 mark A. Area B as there are more people living in 500 hectares/same size HA compared with 4 per HA in A. NB: must be comparative B. Area A as redevelopment has taken place or B is described as old NB: no need for comparative 	[1 red area/B has 7 pe
	(ii)	 1 mark A. Area B as there are more people living in 500 hectares/same size HA compared with 4 per HA in A. NB: must be comparative B. Area A as redevelopment has taken place or B is described as old NB: no need for comparative 2 @ 1 mark Ideas such as in area A there is: a greater percentage of professional/managerial; greater percentage of skilled manual workers; lower percentage of unskilled slightly more non-manual 	[1 red area/B has 7 pe

Page 6	6 Mark Scheme Syllabus	
	IGCSE – October/November 2013 0460	No.
(iv)	Advantages such as:	bing;
(1*)	Close to/cheaper to get to/quicker to get to CBD for employment/shopp	ning.
	Well served by public transport;	9
	Cheap housing;	
	Local shops/amenities;	
	Close knit communities	
	Nearer to industrial areas for jobs; etc.	
	Disadvantages such as:	
	Congested roads;	
	Limited space/overcrowded houses;	
	Noise from works/traffic;	
	Lack of off road parking/garages; No gardens;	
	Air pollution from traffic/factories;	
	Houses in need of repair or poor quality;	
	etc.	
	2 + 2 @ 1 mark	[4]
		L.1
b) (i)	Land use types such as:	
	Commercial;	
	Civic;	
	Office	
	3 @ 1 mark	[3]
(ii)		
(b) (i)	Some people may support it because:	
	They will be able to use the cinema; And not have to travel so far to use one (dev);	
	They may gain business from people coming into the area to use the c	inema:
	e.g. local shops (dev);	,
	It will be more attractive than a vacant property;	
	They may get employment in the cinema etc.	
	Some people may oppose it because:	
	It will create noise;	
	Because more people are coming into the area (dev);	
	And extra traffic; So there may be delays/parking problems (dev);	
	It may result in competition for other leisure providers in the area;	
	Some would prefer a different use e.g. school;	
	Litter;	
	etc.	
	NB: Reserve one mark for support and one for oppose ideas.	
	NB: Reserve one mark for support and one for oppose lideas.	

(5 @ 1 or development)

[5]

		2.
Page 7	Mark Scheme	Syllabus r
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(c) Levels marking

3

Level 1 (1–3 marks)

ambridge.com Statements including limited detail describing the main changes in land use in the a surrounding the city.

Level 2 (4–6 marks)

Uses named example

More developed statements describing the main changes in land use in the area surrounding the city.

NB MAX 5 if no named example.

Level 3 (7 marks) Uses named example (e.g. London). More developed statements describing the main land uses in the rural urban fringe, including some place specific reference.

Candidates may refer to ideas such as: Loss of farmland Building of leisure facilities Building of shops Building of factories/warehouses Transport developments

NB: Answers must relate to area surrounding the city not CBD or Inner city, however, some simple ideas may be generic e.g. new houses/shops/roads. [7]

[Total: 25]

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(a) (i)	An upland area/high area of land formed by the buckling/bending/moving u earth's crust/plates	up of the
	1 mark	[1]
(ii)	Nazca; South American	
	2 @ 1 mark	[2]
(iii)	Such as: Two continental plates meet/an oceanic and a continental plate; Same density plates; Layers of sediment/sedimentary rock accumulate; One plate won't subduct/give way; Crust/rocks get bent and crumpled/into a series of folds; Layers of crust/rock gets uplifted as a result, etc.	
	3 @ 1 mark	[3]

		2.
Page 8	Mark Scheme	Syllabus
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(b) (i) Ideas such as:

	10
Idea from Fig 6:	Matched with any hazard for people selected from:
Pyroclastic flow	Kill/crush/injure/burn people
Volcanic bombs	Destroy/damage/burn buildings
Ash cloud	Destroy/damage/burn farmland
Lava	Disruption to transport
	Reduced visibility
	Poison from toxic fumes/suffocate/breathing difficulties/choke people

3 @ 1 mark

- (ii) Ideas such as:
 - Plates converge/push together; Subduction of one plate (oceanic); Greater density of oceanic plate; Friction/heating; Destruction of oceanic plate/turns to magma/melts; Build up of magma/pressure; Magma rises through lines of weakness; etc.

4 @ 1 mark

- (iii) Ideas such as:
 - Soils are fertile/can be used for farming; So yields of crops are high (dev); They can generate electricity from the volcano; Using geothermal power (dev); The volcano attracts tourists; And they can get jobs as tour guides (dev); The volcano provides raw materials; Such as sulphur (dev) Scientists/geologists study volcano; etc.
 - 5 @ 1 mark or development

[5]

[3]

[4]

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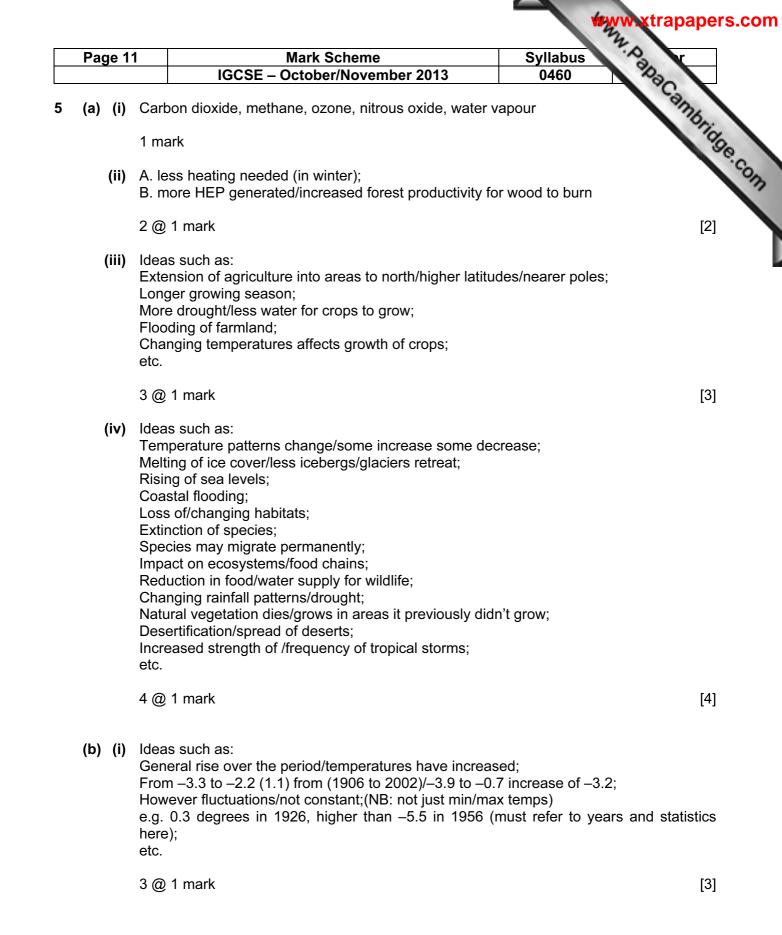
	9	Mark Scheme	Syllabus	Y
		E – October/November 2013	0460	30
(c) Le [.]	vels marking			amb
	<u>vel 1</u> (1–3 marks) atements including	limited detail describing impacts of	Syllabus 0460 an earthquake.	
Us	<u>vel 2</u> (4–6 marks) es named example re developed state	e ments describing impacts of an ear		
(NI	B MAX 5 if no name	ed example)		
Us	<u>vel 3</u> (7 marks) es named example mprehensive and a	e (e.g. Kobe). accurate statements including some	place specific reference.	
Lo: Inji Ho Da	ss of life uries meless mage to buildings	to impacts such as:		
	mage to infrastruct sruption of transpor			
etc				[7
			[Total: 25
(a) (i)	A wind which blow	ws from the west/to the east		
				[
	1 mark			L
(ii)				L
(ii)		nbus		I
(ii)	09.00 Cirrus	nbus		[
(ii) (iii)	09.00 Cirrus 14.00 Cumulonim 2 @ 1 mark Differences such Afternoon is colde Morning has stron Wind direction fro Dry in morning bu Better visibility in	as: er/morning is warmer; nger wind speeds/wind speed dropp om west in morning north west in aft ut rain in afternoon;		
	09.00 Cirrus 14.00 Cumulonim 2 @ 1 mark Differences such Afternoon is colde Morning has stron Wind direction fro Dry in morning bu Better visibility in Clear sky in morn	as: er/morning is warmer; nger wind speeds/wind speed dropp om west in morning north west in aft ut rain in afternoon; morning;		I
	09.00 Cirrus 14.00 Cumulonim 2 @ 1 mark Differences such Afternoon is colde Morning has stron Wind direction fro Dry in morning bu Better visibility in Clear sky in morn etc. 3 @ 1 mark	as: er/morning is warmer; nger wind speeds/wind speed dropp om west in morning north west in aft ut rain in afternoon; morning;		I
(iii)	09.00 Cirrus 14.00 Cumulonim 2 @ 1 mark Differences such Afternoon is colde Morning has stron Wind direction fro Dry in morning bu Better visibility in Clear sky in morn etc. 3 @ 1 mark	as: er/morning is warmer; nger wind speeds/wind speed dropp om west in morning north west in aft ut rain in afternoon; morning; ning but cloudy in afternoon;		
(iii)	09.00 Cirrus 14.00 Cumulonim 2 @ 1 mark Differences such Afternoon is colde Morning has stron Wind direction fro Dry in morning bu Better visibility in Clear sky in morr etc. 3 @ 1 mark Anemometer = w Wind vane = wind	as: er/morning is warmer; nger wind speeds/wind speed dropp om west in morning north west in aft ut rain in afternoon; morning; ning but cloudy in afternoon;	ernoon;	I

Page 10	Mark Scheme	Syllabus r
	IGCSE – October/November 2013	0460
(ii) Idea	is such as	23
In th So re Abov As te So th In a To a On t	e open/open space/away from trees and/or building eadings are not affected by shelter they provide (rea ve grass/not above concrete; emperatures above concrete will be artificially high (hat rain doesn't bounce off concrete into rain gauge fenced/walled compound; avoid tampering (reason); he roof of a building; vinds are not slowed down by obstructions;	ason); (reason);
4@	1 mark with 1 mark reserved for each of describe/e	explain [4]
Fun Attac Cylir 20 c Half The mea Che	is such as: nel; ched to a cylinder; nder fits inside a larger outside container; m in diameter/and 50 cm tall (dev); of it is buried in the ground; height of the water in the small graduated cylin suring cylinder; cked every 24 hours; er emptied;	nder is measured/poured into a
NB:	Diagram not compulsory. No double credit for labeli	ing and text.
5 @	1 mark or development	[5]
(c) Levels m	narking	
	1–3 marks) nts including limited detail explaining chosen weathe	ering type.
States co	4–6 marks) prrect weathering type linking with explanation. veloped statements explaining chosen weathering ty	ype.
NB: MAX	X 5 if stated weathering type does not match explan	ation or no process is stated.
	7 marks) prrect weathering type linking with explanation.	

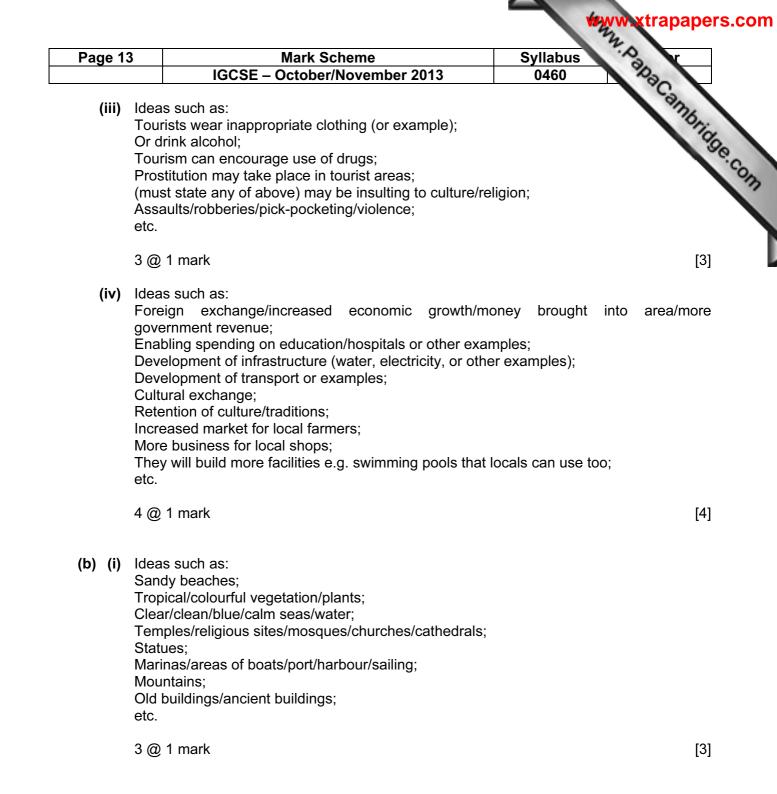
States correct weathering type linking with explanation. Comprehensive and accurate statements with labelled diagram(s)

[7]

[Total: 25]



	Mark Scheme	Syllabus Syllabus	Y.
	IGCSE – October/November 2013	0460	
Gei By Bur Air Def Wh Rar Fac Inci etc.	as such as: neration of electricity; using fossil fuels/in coal fired power stations (dev); ning fuels/oils/petrol in vehicles/transport; travel; forestation; ich prevents use of carbon dioxide by trees; nching/grazing of cattle (releases methane); ctories burning coal; neration of waste;	Syllabus 0460	
5 @			[0]
(c) Levels r	narking		
Level 1	(1–3 marks)		
	ents including limited detail describing causes of wa	ater pollution.	
Level 2	(4–6 marks)		
	med example eveloped statements describing causes of water po	attle (releases methane); ; oment [5] ed detail describing causes of water pollution. ts describing causes of water pollution. ample	
NB MAX	5 if no named example		
	(7 marks) amed example (e.g. North Sea).		
		place specific reference.	
Candida	ates may refer to causes such as:		
	e disposal al effluent		
Farming	activities		
Nuclear Oil spilla			
etc.	- - -		[7]
		[T(otal: 25
(a) (i) Wo etc.	rk in hotel/waiter/taxi driver/tourist guide/selling so	uvenirs/working for tourist	agency
1 m	ark		[1]
<i>a</i> n –	vironmental cost = air/water pollution/destruction of		
• •	vironmental benefit = protection of natural environm	nent	



	Syllabus	ark Scheme	je 14 Mark	Page 14
1 20	0460	ober/November 2013	IGCSE – Octob	
	ourism/beautifi nan	pensive (dev); et for manufactured products; I for tourism; velopment of manufacturing; it has been in farming (dev); pe favours development of to stors are happy to invest in low skill/pay; lamaging to the environment th	Lack of raw materials for inv And imports would be exper Difficult to establish market f Large/increasing demand fo Skills base is poor for develo As traditional employment h Weather/climate/landscape there; Therefore overseas investor Tourism development; Many jobs in tourism are low Tourism is seen as less dam Manufacturing/to build factor Lack of technology;	Lacl And Diffi Larg Skill As t Wea then The Tou Man Lacl Lacl
acturing.	and manufaction	r reference to each of tourism	NB: Reserve one mark for re	NB:
[5]		ent	5 @ 1 mark or development	5 @
			<u>Level 1</u> (1–3 marks)	
			Statements including limited def environment. <u>Level 2</u> (4–6 marks) Uses named example. More developed statements d environment.	environn <u>Level 2</u> (Uses na More de
		describing what has been	Statements including limited der environment. <u>Level 2</u> (4–6 marks) Uses named example. More developed statements d	environn <u>Level 2</u> (Uses na More de environn
conserve the natural	done to cor has been dor	e describing what has been ple. enorca). e statements describing what g some place specific reference	Statements including limited der environment. <u>Level 2</u> (4–6 marks) Uses named example. More developed statements d environment.	environn Level 2 (Uses na More de environn NB: Max Level 3 (Uses na Comprel natural e Candida Restrictin Conserv
conserve the natural	done to cor has been dor	e describing what has been ple. enorca). e statements describing what g some place specific reference	Statements including limited defensionLevel 2 (4–6 marks)Uses named example.More developed statements d environment.NB: Max 5 if no named exampleLevel 3 (7 marks)Uses named example (e.g. Mend Comprehensive and accurate s natural environment, including so Candidates may refer to ideas so National parks Restricting tourist numbers Conserving wildlife	environn <u>Level 2</u> (Uses na More de environn NB: Max <u>Level 3</u> (Uses na Comprel natural e Candida National Restrictin Conserv Educatio