

International General Certificate of Secondary Education

MARK SCHEME for the November 2004 question paper

0637 CHILD DEVELOPMENT

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0637/01

Paper 1 (Theory), maximum mark 100

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published *Report on the Examination*.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the *Report on the Examination*.

• CIE will not enter into discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the November 2004 question papers for most IGCSE and GCE Advanced Level syllabuses.

Grade thresholds taken for Syllabus 0637 (Child Development) in the November 2004 examination.

	maximum	mir	nimum mark re	equired for gra	de:
	mark available	А	С	Е	F
Component 1	100	76	55	52	49

The threshold (minimum mark) for B is set halfway between those for Grades A and C. The threshold (minimum mark) for D is set halfway between those for Grades C and E. The threshold (minimum mark) for G is set as many marks below the F threshold as the E threshold is above it.

Grade A* does not exist at the level of an individual component.

November 2004

INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 100

SYLLABUS/COMPONENT: 0637/01

CHILD DEVELOPMENT (Theory)

Page 1	Mark Scheme	Syllabu
	IGCSE – NOVEMBER 2004	0637
		°C2.
	Section A	76
	Answer all questions	
ONE ma	ark for each correct answer. TWO required	Syllabu 0637
Baby is	'wanted'	
	al support	
	nodation	
Maturity		
	tner may take a career break ed social life	
	sting responsibility	
Extra ex		
Loss of	freedom	
	n are hard work	
A stable	relationship	2 x 1
One ma	rk for each correct answer. TWO required	
Cystic fi	brosis	
Haemop	bhilia	
Thalass	aemia	
PKU Muscula	ar dystrophy	2 x 1
		2 ~ 1
ONE ma	ark for each correct answer. TWO required	
Hormon	al imbalance in woman	
	erm count	
Fibroids Endome		
	to ovulate	
	Fallopian tubes	
	I mucus too thick	
	treatment	0 - 4
	tubes from testicles	2 x 1
ONE ma	ark for the correct answer	
Being b	orn bottom or legs first	1 x 1
ONE ma	ark for each correct answer. TWO required	
Sucking	/swallowing	
Walking	/stepping	
Falling/	Moro	
Startle		
Rooting Graspin		2 x 1
(arachin		<u> </u>

Page 2		Syllabu
	IGCSE – NOVEMBER	2004 0637
ONE	mark for the correct answer	
The I	muscles in the neck are weak and undev head should always be supported to prev wards	•
ONE	mark for the correct answer	
	precise use of the hands and the fingers. of hands, eyes and brain being trained to	
ONE	mark for each correct answer. FOUR re	equired
	nded er	4 x 1
(a)	ONE mark for each correct answer. T	NO required
	Constantly runny nose Fever/very hot Loss of appetite Rash Vomiting Diarrhoea Unusually pale Fretfulness/restless Unnaturally quiet/limp Dull eyes	2 x 1
(b)	ONE mark for each correct answer. The	HREE required
	Take some toys with them More toys to play with in hospital Take favourite nightwear in with them Doctors and nurses will look after them Other children to play with Parents can visit One parent may be allowed to stay with Show them books about being in hospi	h them

	Page 3	Mark Scheme	Syllabu
	4900	IGCSE – NOVEMBER 2004	0637 %
10.	ONE mark	for each of the following. FOUR required	Cannot.
	<u>Adoption</u> Permanent		Syllabu 0637 Syllabu 0637 Syllabu
	No financia Adoptive pa	arents take on all responsibility for child	
	For lifetime		
		nent upport provided	
		eturn to own home at any time sponsibility	
	DO NOT A	CCEPT OPPOSITE ANSWERS	4 x 1
11.	ONE mark	for each correct answer. TWO required	
	Using hand Tone of voi	ice	
	Facial expr Using the e		2 x 1
12.	ONE mark	for each correct answer. FOUR required	
	<u>Positive</u> Happy Excited		
	Love		
	Joy Pleasure		
	Patience		
	<u>Negative</u> Anger		
	Resentmer	nt	
	Guilt Hate		
	Jealousy		
	Impatience		4 x 1

Page	4		Mark Scheme		Syllabu.	2
		IGC	CSE – NOVEMBER 2	2004	0637	Dac
			Section B			oana Cann
			Answer two que	stions		
. (a)	ONE	mark for each co	orrect answer. TW	O required		
	Redu Redu Help Enat live i Disc P.I.E Expe	n e.g. overy .S skills erimenting		elves and the wo	rld they	
	Inve Spee	nting ech skills			2 x	1
(b)	-		orrect answer. TH	REE required		
	Para Look Joini	ary play Ilel play ing-on play ng-in play perative play			3 x	1
(c)	ONE	mark for each co	orrect type of play. orrect example. Th an be accepted. N	IREE required		
	Invol Liste Usin Usin	g different texture g different sized l		h		
	Role	jinative play e.g. /pretend play-dre ors and nurses				
	Runi Kicki Clim	ng a ball bing scotch				
	Sewi Thre	ipulative play e.g ing cards ading beads o dot <i>v</i> ing	g.			

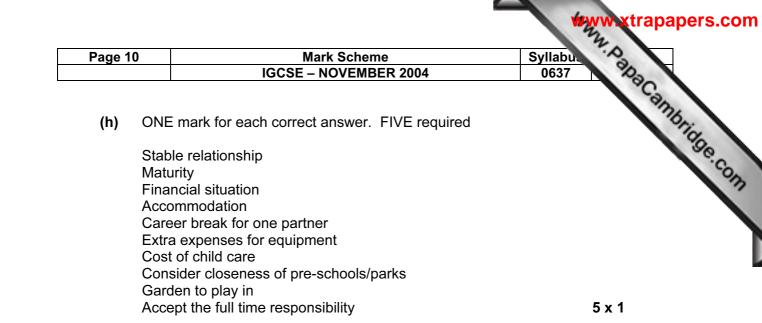
		2
age 5		Syllabu
	IGCSE – NOVEMBER 2004	0637 730
Pa Ma Pla	eative play e.g. inting aking models aying with dough	Syllabu 0637
	ilding/construction aking music	3 x 1
(d) (i)	ONE mark for each correct answer. FOUR required	
	Check that fluffy toys are washable No sharp edges No loose parts Paint to be lead free Safety mark e.g. CE lion mark	
	Free from spikes and staples Not to break easily Look for manufacturer's instructions for use and care a recommendations	nd age 4 x 1
(ii)	ONE mark for each correct answer. THREE required Suitable for age of child Strong enough	
	Help to develop new skills Be suitable for the ability of the child Appealing/interesting to the child Last a long time	3 x 1
(e) ON	NE mark for the correct answer	
An	y suitable toy appropriate for a six month old baby e.g.	
Bu Mu So Ra	tivity centres/mats ilding bricks usical toys ft toys attles astic keys	1 x 1
(f) ON	NE mark for each correct answer. SIX required	
Gr Re Fill Pla Bu Kn Co	acking beakers encourage all areas of development (P.I.E asping/holding the beakers - physical ecognition of colours - intellectual ling with sand/water - intellectual aying with others - social/emotional ilding in a tower - physical locking down a tower - emotional punting - intellectual arning about size - intellectual	S)
	these can be learnt from playing with the beakers as the velops through the stages.	child 6 x 1

	Page	;	Mark Scheme	Syllabu.	Q.		
			IGCSE – NOVEMBER 2004	0637			
4.	(a)	ONE mark for the correct answer					
			t contains the right amounts of all the ood substances	necessary	1 x 1		
	(b)	ONE mark	for each correct answer. THREE red	quired			
		Secondary Carbohydr	prowth and repair y source of energy rate - energy nth and energy		3 x 1		
	(c)	ONE mark	for each correct answer. EIGHT red	quired			
			e.g. milk, butter, carrots, margarine, f s, cheese, oily fish	ish liver oils, green			
		Vitamin C	e.g. citrus fruits, blackcurrants, green	vegetables	2 x 1		
		-	d meat, liver, eggs, green vegetables ain chocolate	, dried fruit,	2 x 1		
		Calcium e.	.g. milk, cheese, yogurt, green vegeta	bles, white bread	2 x 1		
		DO NOT A	ACCEPT REPEATS		2 x 1		
	(d)	TWO mark	ks for the correct answer				
		Helps to p	revent defects in the foetus e.g. spina	bifida	2 x 1		
	(e)	ONE mark	for each correct answer. TWO requi	red			
		Avoid fizzy Avoid addi Limit the a	ren diluted, unsweetened drinks y/sugary drinks ing sugar to foods and drinks imount of sweet foods eces of fruit/vegetables for snacks		2 x I		
	(f)		c for each correct advantage. TWO re c for each correct disadvantage. TWC	•			
		Variety of	repare uctions to follow different flavours				
		Useful for	travelling/holidays		2 x 1		

 Page 7		Syllabu	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	IGCSE – NOVEMBER 2004	0637	N X
			2 x 1
	<u>Disadvantages</u>		
	Expensive		
	May be high in sugar		
	May be high in fat Baby will not be used to eating what the rest of the	o family oats	2 v 1
(m)			2 ~ 1
(g)	ONE mark for each correct answer. FIVE require	D	
	Include foods high in fibre		
	Ensure there is a balance of nutrients		
	Provide a variety of foods		
	Provide a variety of textures Make the food colourful		
	Ensure food will look attractive		
	Small portions		
	Choose healthy methods of cooking e.g. grilling		
	Plenty of healthy drinks should be provided		5 x 1
(a)	ONE mark for the correct answer.		
	A vaccine is given to make the body produce ant	bodies to fight	
	infection.		1 x 1
(h)	ONE more for each correct ensurer. TWO require	. al	
(b)	ONE mark for each correct answer. TWO require	ed and a second s	
	Droplet infection - sneezing, coughing, singing, ta	-	
	Contact - kissing, touching, sharing toys, sharing	towels	2 x 1
(c)	ONE mark for each correct answer. THREE requ	lired	
	A fever		
	Taking medication		
	A bad reaction to a previous immunisation		
	A severe reaction after eating eggs		
	A convulsion/fit at any time		3 x 1
(d)	One mark for each correct answer. FOUR requir	ed	
	Chickenpox		
	Red rash with swollen glands		
	Polio		
	Painful swellings near the jaw on one or both side	es	4 x 1
(e)	ONE mark for each correct answer. THREE requ	lired	
	Diphtheria		
	Tetanus		
	Pertussis		3 x 1

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	IGCSE – NOVEMBER 2004 063	7 12
		PH
(f)	ONE mark for each correct answer. THREE required	www.xtrapaper
	Babies	
	High-pitched moaning cry	
	Difficult to wake	
	Bulging fontanelle Blank expression	
	Arched back	
	Children	
	Severe headache	
	Stiff neck Drowsiness	
	Painful joints	
	Dislike of bright lights	
	Fever (possible cold hands and feet) Vomiting	
	Rash	3 x 1
(g)	TWO marks for the correct answer.	
(3)	The time between the entry of the germs into the body and the	
	appearance of the symptoms	2 x 1
(h)	ONE mark for each correct answer. TWO required	
()	Severe bleeding	
	Severe burns	
	Severe pain	
	Severe vomiting or diarrhoea	
	Swallowing poison Unconsciousness	
	Difficulty in breathing	
	Fit/convulsion	
	Swallowing a dangerous object e.g. safety pin	2 x 1
(i)	ONE mark for each correct answer. FIVE required	
	Wash face and hands regularly	
	Clean teeth	
	Warm room Room well ventilated	
	Straighten bedclothes	
	Change bedclothes/nightwear as necessary	
	Tray of toys/games Music	
	Books	5 x 1
(a)	ONE mark for the correct answer.	

Page 9	Mark Scheme IGCSE – NOVEMBER 2004	Syllabu 30 0637
	ONE mark for each correct answer. FOUR required	Syllabu 0637 Bracenthiuse com
F F E L	Pubic hair Menstruation begins Breasts develop Underarm hair Fat laid down in the hips	Com
F E (<u>Boys</u> Pubic hair Body hair Genitals enlarge Voice deepens Muscles develop in shoulders and arms	4 x 1
(c) (ONE mark for each correct answer. SEVEN required	
E ([F	A = seminal vesicle B = penis C = scrotum D = foreskin E = testis F = urethra G= sperm tube (vas deferens)	7 x 1
(d) (ONE mark for the correct answer.	
-	The release of the egg from an ovary	1 x 1
(e) (ONE mark for the correct answer.	
-	The 14th day	1 x 1
(f) (ONE mark for each correct answer. TWO required	
(<u>Female</u> Oestrogen Progesterone	
	<u>Male</u> Testosterone	2 x 1
(g) (ONE mark for each correct answer. FOUR required	
	Nutritious diet Not to be overweight Stop smoking Stop drinking alcohol Stop taking drugs/medicines without doctor's permission To have genetic counselling Check with G.P. on immunity to Rubella To be as healthy as possible	
(To have genetic counselling Check with G.P. on immunity to Rubella	4 x 1



Section C

Answer one question

17. A high level response = 14-20

The candidate is likely to cover both parts of the question in depth and detail. Will provide a balanced answer on parents' encouragement and conditions that may hinder intellectual development.

The development of a child's mind will depend on the encouragement that parent's provide. Help can be provided in the following ways:

Talking to the child Playing with the child Providing a variety of toys and objects to stimulate imagination Allowing to practise new skills e.g. dressing, drawing, feeding him/herself Playing with other children Being creative Listening to stories Looking at books Allowed to explore new places Being curious Asking questions and to have them answered

The following conditions can slow down the rate of development of a child's mind:

Lack of opportunities for playing Nothing of interest for the child to do Constant nagging or bullying Deafness Poor eyesight Poor concentration Frequent illness Frequent absence from school Lack of opportunities for talking Not taking child out to different places If the conditions last for too long they may prevent the full development of the child's intelligence.

Page 11	Mark Scheme Sylla	ibus ^A D
~	IGCSE – NOVEMBER 2004 06	37 20
A mid ran	e response = 7-13	Cambrid
depth and	e candidate will cover many points but the response will lac detail. Candidates in the lower mark range may only e on one part of the question making brief comments about rt.	5

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A mid range response = 7-13

A low level response = 0-6

The candidate is likely to mention some points on encouragement but only superficially. The candidates may only answer one part of the question.

18. A high level response = 14-20

> The good candidate will cover the advantages and the disadvantages precisely and explain in detail the factors a couple may consider in choosing a method of contraception.

Combined pill

Advantages

- Protects against cancer of ovaries
- Suitable up to the age of the menopause
- Reduces period pain, bleeding and PMT
- Does not interrupt love-making

Disadvantages

- Some medicines stop the pill from working
- Is not effective if taken more than 12 hours late, after vomiting or severe diarrhoea
- Not suitable for all women
- Have to remember to take it
- Rare, but serious side effects e.g. blood clots

Progestogen only pill (mini-pill) Advantages

- Suitable for older women who smoke
- Can be used when breastfeeding

Disadvantages

- Irregular periods
- Less effective in heavier women
- Must be taken at the same time each day
- Medicines may stop it from working
- Not effective if taken over 3 hours late, after vomiting or severe diarrhea

Contraceptive injection

Advantages

- Protects against pregnancy for 12 weeks
- Do not have to think about it
- May protect against cancer of the uterus

Disadvantages

- Irregular periods •
- Possible side effects e.g. weight gain, headaches, acne
- Regular periods and fertility may take a year or two to return to normal after coming off the injection
- Hormone cannot be removed from body so any side effects will have to be put up with
- Medicines may affect injection

Contraceptive implants

Advantages

- A single tube protects against pregnancy for up to 3 years/others up to 5 years
- Do not have to think about it
- Once implant has been removed fertility returns straight away

Disadvantages

- Irregular periods
- Removal of implant often difficult
- Possible side effects include headaches, mood changes and weight gain
- Some medicines may affect implant

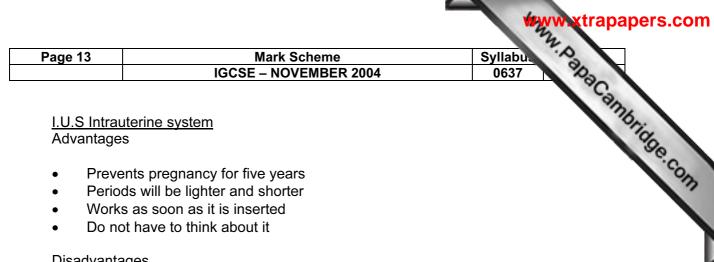
I.U.D. Intrauterine device

Advantages

- Works as soon as inserted
- Can stay in place for three to ten years
- Do not have to think about it

Disadvantages

- Periods may be heavier and longer
- Not suitable for women who already have heavier periods
- Not suitable for women at risk from sexual transmitted disease



Disadvantages

- Irregular light bleeding for first three months
- Temporary side effects include acne and breast tenderness

Female sterilisation

Advantages

- Permanent
- Do not need to think about it

Disadvantages

- Fallopian tubes may rejoin
- Contraception must be used until the first period after the operation

Male sterilisation - vasectomy Advantages

- Permanent
- Do not need to think about it

Disadvantages

- Vas deferens may rejoin
- Usually takes a few months for no sperm to be present
- Contraception must be used until there are two negative semen tests

Couples will need to consider carefully the various methods of contraception available if they do not want a baby. Using this knowledge they are able to plan their family and only have a baby when they want one.

Mark Scheme IGCSE – NOVEMBER 2004

The following factors will affect the decision of which method to choose:

Individual preference - some methods of contraception may not appeal to the couple for a number of reasons i.e. the female may not want to use a method that involves putting hormones into her body as with the pill

Religious beliefs - a Roman Catholic may only want to use the natural method as any of the other methods are against their beliefs

Age - older women may not be able to use the combined pill or younger women may be advised not to have an I.U.D fitted as these are really only suitable for those who have already had a baby.

Whether short or long term method is required - depends on the time that the couple wish to use the method for e.g. using the contraceptive injection may affect the return of regular periods for up to one to two years.

Reliability of the method - some are more reliable than others and only work if they are used correctly.

A mid range response = 7-13

A mid range response will name method correctly and provide some advantages and disadvantages. The second part of the question will be answered briefly but will lack detail. Candidates in the lower mark range will only answer the first part of the question correctly.

A low level response = 0-6

A low level candidate may only answer the first part of the question and the answers given may only mention the names of the methods and advantages and disadvantages may be muddled.

A Contraction of the contract of the contract

Syllabu

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