UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

# www.papacambridge.com MARK SCHEME for the November 2004 question paper

# 0637 CHILD DEVELOPMENT

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 mark available	minimum mark required for grade:				
		А	С	E	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 732
		Section A	Syllabu 0637 DapaCambridge.c
		Answer <b>all</b> questions	See.
. ONE	mark for each coi	rect answer. TWO required	
Baby	y is 'wanted'		· · · · · · · · · · · · · · · · · · ·
	ncial support		
	ommodation		
Matu			
	partner may take a	a career break	
	ricted social life	:I:A	
-	g-lasting responsib a expenses	liity	
	s of freedom		
	dren are hard work		
	able relationship		2 x 1
. One	mark for each corr	rect answer. TWO required	
	ic fibrosis		
	mophilia		
	assaemia		
PKU Muse	cular dystrophy		2 x 1
		rect answer. TWO required	
	nonal imbalance in	woman	
	sperm count		
Fibro	oids ometriosis		
	ire to ovulate		
	ked Fallopian tube	S	
Cerv	rical mucus too thic		
	cer treatment		
Bloc	ked tubes from tes	ticles	2 x 1
. ONE	mark for the corre	ect answer	
Bein	g born bottom or le	egs first	1 x 1
. ONE	mark for each cor	rrect answer. TWO required	
Suck	king/swallowing		
Walk	king/stepping		
	ng/Moro		
Start			
Root	-		2 x 1
Gras	sping		

Page	2	Mark Scheme	Syllabu 0637
		IGCSE – NOVEMBER 2004	0637
ON	E mark	for the correct answer	
The		es in the neck are weak and undeveloped. should always be supported to prevent the head falling	Syllabu: 0637 1 x 1
ON	E mark	for the correct answer	
		e use of the hands and the fingers. nds, eyes and brain being trained to co-ordinate	1 x 1
ON	E mark	for each correct answer. FOUR required	
Fos Step One	ended ter	e/lone parent re	4 x 1
(a)	ON	E mark for each correct answer. TWO required	
	Fev Los Ras Von Diar Unu Fret	er/very hot s of appetite sh niting rrhoea isually pale ifulness/restless naturally quiet/limp eyes	2 x 1
(b)	ON	E mark for each correct answer. THREE required	
	Mor Tak Doc Oth Pare One	e some toys with them re toys to play with in hospital e favourite nightwear in with them stors and nurses will look after them er children to play with ents can visit e parent may be allowed to stay with them wy them books about being in hospital	3 x 1

	Page 3	Mark Scheme	Syllabu.
		IGCSE – NOVEMBER 2004	0637
			an.
10.	ONE mark	for each of the following. FOUR required	"Bri
	Adoption		Syllabu 0637 0637 0637 003Cambridge
	Permanent		
	Legal proce	ess- natural parents give up all responsibility	
	No financia Adoptive pa	arents take on all responsibility for child	
	For lifetime		
	Fostering		
	Not permai		
	Financial s Short term	upport provided	
		eturn to own home at any time	
		sponsibility	
		CCEPT OPPOSITE ANSWERS	4 x 1
	DONOTA	CCEFT OFFOSITE ANSWERS	4 X I
11.	ONE mark	for each correct answer. TWO required	
	Using hand	ls	
	Tone of voi		
	Facial expr Using the e		2 x 1
12.	•	for each correct answer. FOUR required	
	<u>Positive</u> Happy		
	Excited		
	Love		
	Joy Pleasure		
	Patience		
	Negetive		
	<u>Negative</u> Anger		
	Resentmer	nt	
	Guilt		
	Hate		
	Jealousy Impatience		4 x 1

Page 4	4	Mark Scheme IGCSE – NOVEMBER 2004	Syllabu 0637
		Section B	Syllabu 0637 Apart
		Answer <b>two</b> questions	
. (a)	ONE	mark for each correct answer. TWO required	
	Red Red Help Enal live Disc P.I.E Expe Inve	es towards happiness uces stress uces boredom os divert aggressive instincts bles children to find out about themselves and the wo in e.g. overy E.S skills erimenting nting ech skills	
(b)		E mark for each correct answer. THREE required	
(c)	Para Lool Join Co-c	ary play allel play king-on play ing-in play operative play E mark for each correct type of play. THREE required	3 x 1
	Any Disc Invo Liste Usin Usin Sha Role Doct Run Kick Clim	ing a ball bing scotch	
	Sew Thre	<b>ipulative</b> play e.g. ing cards ading beads to dot ving	

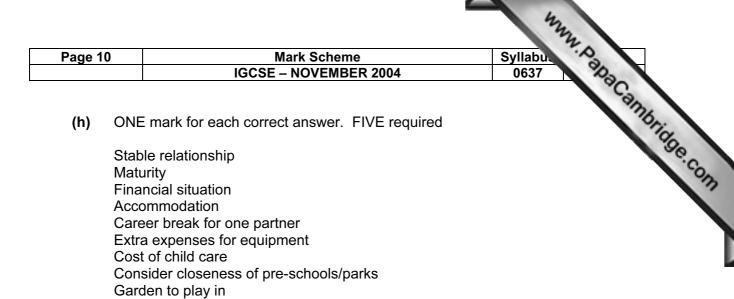
Page	5	Mark Scheme Syllab	A. 1
		IGCSE – NOVEMBER 2004 0637	
			3 x 1
		ative play e.g.	
		nting king models	
		/ing with dough	
	-	ding/construction	
	Mak	king music	3 x 1
(d)	(i)	ONE mark for each correct answer. FOUR required	
		Check that fluffy toys are washable	
		No sharp edges	
		No loose parts 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 and ag recommendations	e 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)		E mark for the correct answer	
(6)			
	Any	suitable toy appropriate for a six month old baby e.g.	
		vity centres/mats	
		ding bricks sical toys	
		t toys	
	Ratt		
	Plas	stic keys	1 x 1
(f)	ON	E mark for each correct answer. SIX required	
		cking beakers encourage all areas of development (P.I.E.S)	
		sping/holding the beakers - physical	
		ognition of colours - intellectual ng with sand/water - intellectual	
		ying with others - social/emotional	
	-	ding in a tower - physical	
		cking down a tower - emotional	
		Inting - intellectual	
	Lea	rning about size - intellectual	
		hese can be learnt from playing with the beakers as the child	6 -  A
	uev	elops through the stages.	6 x 1

Page		Sylla	bu.
	IGCSE – NOVEMBER 20	004 063	87
I4. (a)	ONE mark for the correct answer		4444 Mar Do
	Is one that contains the right amounts of a nutrients/food substances	all the necessary	1 x 1
(b)	ONE mark for each correct answer. THR	EE required	
	Protein - growth and repair Secondary source of energy Carbohydrate - energy Fat - warmth and energy		3 x 1
(c)	ONE mark for each correct answer. EIG	HT required	
	Vitamin A e.g. milk, butter, carrots, marga vegetables, cheese, oily fish	rine, fish liver oils, gree	n
	Vitamin C e.g. citrus fruits, blackcurrants,	green vegetables	2 x 1
	Iron e.g red meat, liver, eggs, green vege Cocoa, plain chocolate	tables, dried fruit,	2 x 1
	Calcium e.g. milk, cheese, yogurt, green	vegetables, white bread	2 x 1
	DO NOT ACCEPT REPEATS		2 x 1
(d)	TWO marks for the correct answer		
	Helps to prevent defects in the foetus e.g.	spina bifida	2 x 1
(e)	ONE mark for each correct answer. TWC	) required	
	Give children diluted, unsweetened drinks Avoid fizzy/sugary drinks Avoid adding sugar to foods and drinks Limit the amount of sweet foods Provide pieces of fruit/vegetables for snac		2 x l
(f)	ONE mark for each correct advantage. T ONE mark for each correct disadvantage.		
	<u>Advantages</u> Quick to prepare Easy instructions to follow Variety of different flavours Useful for travelling/holidays		2 x 1

Page	7	Mark Scheme	Syllabi	· · · ·
		IGCSE – NOVEMBER 2004	0637	
				4444 P. O.
		<u>dvantages</u>		
	•	ensive		
	•	be high in sugar be high in fat		
		will not be used to eating what the rest of the f	amilv eats	2 x 1
(g)	•	mark for each correct answer. FIVE required	5	
(0)				
		de foods high in fibre ire there is a balance of nutrients		
		ide a variety of foods		
		ide a variety of textures		
		e the food colourful		
		re food will look attractive Il portions		
		ose healthy methods of cooking e.g. grilling		
		ty of healthy drinks should be provided		5 x 1
. (a)	ONE	mark for the correct answer.		
	A va	ccine is given to make the body produce antibo	dies to fiaht	
	infec	• • • • •	5	1 x 1
(b)	ONE	mark for each correct answer. TWO required		
	Drop	let infection - sneezing, coughing, singing, talkir	ng	
		act - kissing, touching, sharing toys, sharing tov		2 x 1
(c)	ONE	mark for each correct answer. THREE require	d	
	A fe	rer		
		ng medication		
		d reaction to a previous immunisation		
		vere reaction after eating eggs nvulsion/fit at any time		3 x 1
(d)	One	mark for each correct answer. FOUR required		
	Chic	kenpox		
		rash with swollen glands		
	Polic	- -		
	Pain	ful swellings near the jaw on one or both sides		4 x 1
(e)	ONE	mark for each correct answer. THREE require	d	
		theria		
	Teta	nus Issis		3 x 1
		10010		

<u>Page 8</u> (f)	IGCSE – NOVEMBER 2004   ONE mark for each correct answer. THREE required   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	Syllabu 0637 Bracombre
(f)	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	
(f)	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	
	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	
	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	
	Bulging fontanelle Blank expression Arched back <u>Children</u> Severe headache Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	
	Blank expression Arched back <u>Children</u> Severe headache Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Arched back <u>Children</u> Severe headache Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Severe headache Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Severe headache Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Stiff neck Drowsiness Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Painful joints Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Dislike of bright lights Fever (possible cold hands and feet) Vomiting	3 x 1
	Fever (possible cold hands and feet) Vomiting	3 x 1
	Vomiting	3 x 1
	-	3 x 1
(g)	TWO marks for the correct answer.	
	The time between the entry of the germs into the body and	
	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
an an		
(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
(5)		
(a)	ONE mark for the correct answer.	
	The length of time changing from childhood to adulthood	1 x 1

age 9	Mark Scheme	Syllabu.
	IGCSE – NOVEMBER 2004	0637 Day
<b>b)</b> ON	E mark for each correct answer. FOUR required	
Mei Bre Unc	<u>s</u> bic hair nstruation begins asts develop derarm hair laid down in the hips	Syllabu 0637 Ange
Boo Ger Voie	<u>/s</u> bic hair dy hair nitals enlarge ce deepens scles develop in shoulders and arms	4 x 1
c) ON	E mark for each correct answer. SEVEN required	
B = C = D = E = F =	seminal vesicle penis scrotum foreskin testis urethra sperm tube (vas deferens)	7 x 1
d) ON	E mark for the correct answer.	
The	e release of the egg from an ovary	1 x 1
e) ON	E mark for the correct answer.	
The	e 14th day	1 x 1
<b>f)</b> ON	E mark for each correct answer. TWO required	
Oes	<u>nale</u> strogen gesterone	
<u>Mal</u> Tes	e stosterone	<b>2 x 1</b>
g) ON	E mark for each correct answer. FOUR required	
Not Sto Sto Sto Che	ritious diet to be overweight p smoking p drinking alcohol p taking drugs/medicines without doctor's permission have genetic counselling eck with G.P. on immunity to Rubella be as healthy as possible	



5 x 1

## Section C

#### Answer one question

#### **17.** A high level response = 14-20

Accept the full time responsibility

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	Syllabu	
	IGCSE – NOVEMBER 2004	0637	22
			Can
A mid rang	e response = 7-13		334
A mid rang	e candidate will cover many points but the resp	onse will lack	900
depth and	detail. Candidates in the lower mark range may	/ only	.6
concentrat	e on one part of the question making brief comn	nents about the	

#### 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

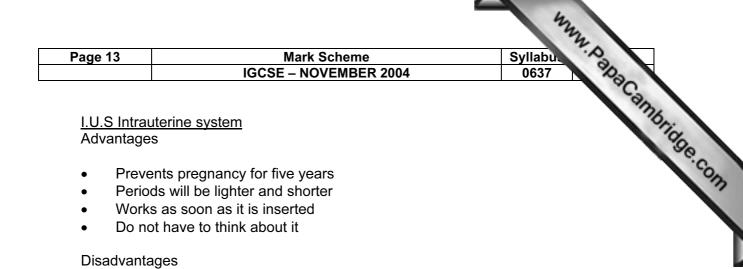
# I.U.D. Intrauterine device

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



- 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

#### <u>Male sterilisation - vasectomy</u> 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**

Syllabu 0637

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

www.papacambridge.com 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.