UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

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	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	Syllabus	Paper
		IGCSE – NOVEMBER 2004	0637	1
		Section A		
		Answer all questions		
1.	ONE mark	for each correct answer. TWO required		
	Restricted Long-lastir Extra expe Loss of fre	support dation er may take a career break social life ng responsibility enses edom re hard work		2 x 1
2.	One mark	for each correct answer. TWO required		
	Cystic fibro Haemophil Thalassae PKU Muscular o	lia mia		2 x 1
3.	ONE mark	for each correct answer. TWO required		
	Low sperm Fibroids Endometrie Failure to o Blocked Fa Cervical m Cancer tre	osis ovulate allopian tubes ucus too thick		2 x 1
4.	ONE mark	for the correct answer		
	Being born	bottom or legs first		1 x 1
5.	ONE mark Sucking/sv Walking/st Falling/Mo Startle Rooting	epping		
	Grasping			2 x 1

	Page 2	2	Mark Scheme	Syllabus	Paper
	. 3 -		IGCSE – NOVEMBER 2004	0637	1
6 .	ONE	mark	for the correct answer		
	The I		es in the neck are weak and undeveloped. should always be supported to prevent the head falling		1 x 1
7.	ONE	mark	for the correct answer		
			e use of the hands and the fingers. ds, eyes and brain being trained to co-ordinate		1 x 1
8.	ONE	mark	for each correct answer. FOUR required		
	Nuclear Extended Foster Step One/single/lone parent Shared-care				4 x 1
9.	(a)	ONE	E mark for each correct answer. TWO required		
	(b)	Feve Loss Rasi Vom Diar Unu Fret Unn Dull ONE Take More Take Doc	stantly runny nose er/very hot s of appetite h hiting rhoea sually pale fulness/restless aturally quiet/limp eyes E mark for each correct answer. THREE required e some toys with them e toys to play with in hospital e favourite nightwear in with them tors and nurses will look after them er children to play with		2 x 1
		Pare One	ents can visit parent may be allowed to stay with them w them books about being in hospital		3 x 1

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10.	ONE mark	for each of the following.			
	<u>Adoption</u> Permanent	t			
	No financia	arents take on all respons			
	Short term Child can r	support provided	/ time		
	DO NOT A	CCEPT OPPOSITE ANS	WERS		4 x 1
11.	ONE mark	for each correct answer.	TWO required		
	Using hand Tone of vo Facial exp Using the e	ice ression			2 x 1
12.	ONE mark	for each correct answer.	FOUR required		
	Positive Happy Excited Love Joy Pleasure Patience				
	<u>Negative</u> Anger Resentmer Guilt Hate	nt			
	Jealousy Impatience)			4 x 1

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Section B

Answer two questions

13. (a) ONE mark for each correct answer. TWO required

Helps towards happiness Reduces stress Reduces boredom Helps divert aggressive instincts Enables children to find out about themselves and the world they live in e.g. Discovery P.I.E.S skills Experimenting Inventing Speech skills

(b) ONE mark for each correct answer. THREE required

Solitary play Parallel play Looking-on play Joining-in play Co-operative play

(c) ONE mark for each correct type of play. THREE required ONE mark for each correct example. THREE required Any suitable activity can be accepted. NO REPEATS

Discovery/exploratory play e.g.

Involves the senses - taste, smell etc. Listening to sounds - rattles, music etc. Using different textures - water, sand, making cookies Using different sized beakers to play with Shapes, colours, size and weight can be learnt

Imaginative play e.g. Role/pretend play-dressing up Doctors and nurses

Physical play e.g. Running Kicking a ball Climbing Hop scotch Skipping

Manipulative play e.g.

Sewing cards Threading beads Dot to dot Drawing 2 x 1

3 x 1

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Creative play e.g. Painting Making models Playing with dough Building/construction Making 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 age 4 x 1 recommendations (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) ONE mark for the correct answer Any suitable toy appropriate for a six month old baby e.g. Activity centres/mats **Building bricks** Musical toys Soft toys Rattles 1 x 1 Plastic keys (f) ONE mark for each correct answer. SIX required Stacking beakers encourage all areas of development (P.I.E.S) Grasping/holding the beakers - physical Recognition of colours - intellectual Filling with sand/water - intellectual Playing with others - social/emotional Building in a tower - physical Knocking down a tower - emotional Counting - intellectual Learning about size - intellectual All these can be learnt from playing with the beakers as the child develops through the stages. 6 x 1

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14.	(a)	ONE	mark for the correct answer		
			ne that contains the right amounts of all the necessary ents/food substances		1 x 1
	(b)	ONE	mark for each correct answer. THREE required		
		Seco Carb	ein - growth and repair ondary source of energy oohydrate - energy warmth and energy		3 x 1
	(c)	ONE	mark for each correct answer. EIGHT required		
			nin A e.g. milk, butter, carrots, margarine, fish liver oils etables, cheese, oily fish	s, green	
		Vitar	nin C e.g. citrus fruits, blackcurrants, green vegetable	S	2 x 1
			e.g red meat, liver, eggs, green vegetables, dried fruit oa, plain chocolate	9	2 x 1
		Calc	ium e.g. milk, cheese, yogurt, green vegetables, white	bread	2 x 1
		DO	NOT ACCEPT REPEATS		2 x 1
	(d)	TWC	D marks for the correct answer		
		Help	es to prevent defects in the foetus e.g. spina bifida		2 x 1
	(e)	ONE	mark for each correct answer. TWO required		
		Avoi Avoi Limi	e children diluted, unsweetened drinks d fizzy/sugary drinks d adding sugar to foods and drinks t the amount of sweet foods ride pieces of fruit/vegetables for snacks		2 x I
	(f)		mark for each correct advantage. TWO required mark for each correct disadvantage. TWO required		
		Quic Easy Varie	antages k to prepare y instructions to follow ety of different flavours ful for travelling/holidays		2 x 1

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	Disadvantages Expensive May be high in sugar May be high in fat Baby will not be used to eating what the rest of the family eats	2 x 1
(g)	ONE mark for each correct answer. FIVE required 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 antibodies to fight infection.	1 x 1
(b)	ONE mark for each correct answer. TWO required	
	Droplet infection - sneezing, coughing, singing, talking Contact - kissing, touching, sharing toys, sharing towels	2 x 1
(c)	ONE mark for each correct answer. THREE required	
	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 required	
	Chickenpox Red rash with swollen glands Polio Painful swellings near the jaw on one or both sides	4 x 1
(e)	ONE mark for each correct answer. THREE required	
	Diphtheria Tetanus Pertussis	3 x 1

15.

Page		Syllabus	Paper
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(f)	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		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	l the	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
16. (a)	ONE mark for the correct answer.		
	The length of time changing from childhood to adulthood		1 x 1

Page S	•	Mark Scheme IGCSE – NOVEMBER 2004	Syllabus 0637	Paper 1
(b)	ONE	mark for each correct answer. FOUR required		
	Men Brea Unde	c hair struation begins ists develop erarm hair aid down in the hips		
	Body Geni Voic	2 c hair / hair itals enlarge e deepens cles develop in shoulders and arms		4 x 1
(c)	ONE	mark for each correct answer. SEVEN required		
	B = p C = s D = f E = t F = u	seminal vesicle penis scrotum foreskin restis urethra sperm tube (vas deferens)		7 x 1
(d)		mark for the correct answer.		
()		release of the egg from an ovary		1 x 1
(e)		mark for the correct answer.		
	The	14th day		1 x 1
(f)	ONE	mark for each correct answer. TWO required		
		<u>ale</u> trogen jesterone		
	<u>Male</u> Test	osterone		2 x 1
(g)	ONE	mark for each correct answer. FOUR required		
	Not f Stop Stop To h Cheo To b	itious diet to be overweight smoking drinking alcohol taking drugs/medicines without doctor's permission ave genetic counselling ck with G.P. on immunity to Rubella e as healthy as possible acid supplements - 3 months before conception		4 x 1

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(h) ONE mark for each correct answer. FIVE required

Stable relationship Maturity Financial situation Accommodation Career break for one partner Extra expenses for equipment Cost of child care Consider closeness of pre-schools/parks Garden to play in Accept the full time responsibility

5 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.

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A mid range response = 7-13

A mid range candidate will cover many points but the response will lack depth and detail. Candidates in the lower mark range may only concentrate on one part of the question making brief comments about the second part.

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

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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

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I.U.S Intrauterine system

Advantages

- Prevents pregnancy for five years
- Periods will be lighter and shorter
- Works as soon as it is inserted
- Do not have to think about it

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

<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.

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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.