

CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME FOR the November 2002 question papers

0637 CHILD DEVELOPMENT

0637/01

Paper 1, maximum raw mark 100

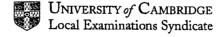
These mark schemes are published as an aid to teachers and students, to indicate the requirements of the examination. They show the basis on which Examiners were initially instructed to award marks. They do not indicate the details of the discussions that took place at an Examiners' meeting before marking 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 discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2002 question papers for most IGCSE, GCE Advanced Subsidiary (AS) and GCE Advanced (A) Level syllabuses.

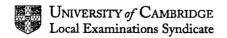




November 2002

INTERNATIONAL GCSE

MAXIMUM MARK: 100 SYLLABUS/COMPONENT: 0637/01 CHILD DEVELOPMENT



| Section A 1. ONE mark for each correct answer. TWO requires e.g. Give support and protection Be smooth inside Wide enough to allow toes to move/ rounded front Room for growth Adjustable fastening Flexible uppers Light and flexible soles/non-slip Firm fitting heel Low heel Reputable supplier Leather allows foot to breathe. 2. ONE mark for each correct answer FOUR required e.g. Bath mat Clean nappy/liner/pins Clean towel Clothing Soap/babybath/infracare Shampoo Cotton wool Talcum powder Nappy cream Chaning mat Bath toys 3 (a)ONE mark for each correct answer TWO required e.g. High blood pressure [1 mark] can lead to pre-eclampsia/toxemia [1 mark] | Pape 1 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
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| Bath toys 3 (a)ONE mark for each correct answer TWO required e.g. | |
| | [4 |
| High blood pressure [1 mark] can lead to pre-adampsis/toyomic [1 mark] | |
| riigii bioog pressure ji marki can leag to bre-ediambsia/toxemia i i marki | |
| High blood pressure [1 mark] can be fatal for the baby and the mother [1 mark] | [2 |
| 3 (b) ONE mark for each correct answer TWO required eg. | |
| Check on the rate of growth/growing ok/height of fundus | |
| Baby's size | |
| Baby's position | |
| Listening to heartbeat/ear trumpet | |
| · | [: |

4 (a) ONE mark for each correct answer TWO required e.g.

Relaxation and breathing exercises

Gas and oxygen/entenox

Acupuncture/reflexology - ONE alternative method only

Tens

Pethidine

Epidural anaesthetic

Water birth

Aromotherapy

[2]

4 (b)ONE mark for each correct answer TWO required e.g.

A show/discharge of mucus and blood Waters breaking/amniotic fluid coming away

Regular and strong contractions

[2]

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ONE mark for each correct answer FOUR required e.g.

Easy for some

Safe/clean

Uterus contracts quickly

Free

Contains antibiotics

bonds of affection

Never causes indigestion

Less likely to become overweight

Less likely to develop nappy rash

Less likely to develop eczema

Less likely to be constipated

Convenient/available

Correct temperature

[4]

ONE mark for each correct answer THREE required e.g.

Bars should be no more than 6cms apart

Mattress should fit/no gaps at the sides

Drop side cots should have a secure catch

Strong/durable/sturdy

New mattress/holes in mattress

Lead free paint

[3]

7. ONE mark for each correct answer TWO required e.g.

Inherited genes

State of health

Amount of encouragement and interest shown by the parents/carers

Environment

[2]

8 (a) ONE mark for each correct answer THREE required e.g.

Solitary/alone

Parallel/side by side

Looking-on

Joining in

Co-operative/group

[3]

8 (b) ONE mark for each correct answer TWO required e.g.

Drawing a picture

Painting/crayons

Modelling with plasticine/playdough/clay/modelling clay

maing junk toys

Making a house from building blocks/bricks/lego/duplo

Sand and water

[2]

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| | | | |
| • | | | |
| | $\frac{dr}{dr}$ | | * |
| 9 ONE mar | k for each correct answer TWO required e.g. | | |
| l earn ho | ow to do the following: | | |
| | en buttons | | |
| | en zips | • | |
| | noelaces | • | • |
| | bows | | |
| | en hooks and eyes en press studs together | | |
| | en toggles | | |
| - Velcr | | | |
| - Indep | pendence/confidence | | [2] |
| | | | 1. 4 |
| | | | |
| Section B | | re. | • |
| | • | | |
| | | | |
| | E mark for the correct answer | | £43 |
| Ave | rage age is 6 months 5-6 or 6-7 | | [1] |
| 10 (a) (ii) ON | E mark for the correct answer | | |
| | milk teeth | | [1] |
| | | | |
| 10 (a) (iii)ON | E mark for each correct answer THREE required | | |
| Cor | o gumo/owollon | · | |
| | e gums/swollen reased dribbling | | |
| | eased fist chewing/chewing objects NOT biting or sucking | | |
| | d cheek | | |
| Incr | reased crying | | [3] |
| 40 (=) (%) (0) | NIT would for each approach approach TMO required | | |
| | NE mark for each correct answer TWO required uddled/comforted | | |
| | vert the baby's attention | | |
| | newing on something hard/rusks/carrot | | |
| | ktra fluids | | |
| | eething gel | | |
| N | o trade names | | [2] |
| 10 (a) (v) ON | E mark for the correct answer | | |
| | ears onward | • | [1] |
| | en e | | |
| | O marks for the correct answer | | |
| | oride combines chemically with the enamel of the teeth, ma | king them stro | |
| and | more resistant to decay | | [2] |
| 10 (b) (ii) ON | E mark for the correct answer | | |
| | cium/phosphorous - NOT fluoride | | [1] |
| | | | • • |
| , , , , | E mark for each correct answer THREE required | | |
| Milk | | | • |
| | eese Jhurt | | |
| | ite bread | | |
| | en vegetables | | |
| | | | |

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10 (c) ONE mark for the correct answer

Vitamin A, C or D

Must have correct vitamin to get marks for food sources

[1]

ONE mark for the correct answer TWO required

Vitamin A:

Milk

Butter

Margarine

Carrots

Green vegetables

Vitamin C:

Green vegetables

Blackcurrants

Oranges

Lemons

Limes

Grapefruit

Raspberries

Vitamin D:

Milk/milk products

Margarine

Butter

Fish oils

Eggs

[2]

10 (d) (i) TWO marks for the correct answer

Bacteria in the mouth + sugar in the food = attacks enamel - NOT Rot or go bad [2]

10 (d) (ii) ONE mark for each correct answer SIX required

Encourage child to hold a toothbrush from an early age

Teach child to brush teeth from the age of 1 year

Teeth should be brushed twice a day and especially before bed/regularly/after meals

Buy the child a toothbrush with a cartoon character on it for encouragement

Caring for teeth will become a lifetime habit

Avoid giving sugary drinks and sweets/reduce sweets

For snack foods provide apple, carrot or crusts

Take the child to the dentist with you so that they get used to it/take child to the dentist....

Novelty toothpaste

Let them watch you

Books/videos

Role-play

Change every three months/buy a brush regularly

[6]

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| 11 (a) (i) | TWO marks for the correct answer They are substances which act as chemical messengers | [2] |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| (ii) | ONE mark for the correct answer Endocrine glands | [1] |
| (iii) | ONE mark for each correct answer TWO required Oestrogen Progesterone | [1] |
| (b) | TWO marks for the correct answer An egg is released every month from one or other of the ovaries / Usually takes place around the 14 th day or middle of the menstrual After being released the egg travels down the Fallopian tube. | releases egg I cycle. [2] |
| (c) | ONE mark for each correct answer SIX required 1. Fallopian tube(s) 2. Ovary 3. Vagina 4. Cervix 5. Lining of the uterus 6. Wall of the uterus / uterus | [6] |
| (d) | ONE mark for each correct answer TWO required Menopause Poor diet Pregnancy | |
| | Illness Breast feeding | [2] |
| (e) (i) | ONE mark for the correct answer 9 – 17 years | [1] |
| (ii) | ONE mark for the correct answer 28 days | [1] |

fi) ONE mark for each correct answer FIVE required be in good health be free from infection not be overweight give up smoking give up alcohol not to take drugs or medication have a good nutritious diet folic acid genetic counselling

[5]

fii) ONE mark for each correct answer THREE required in case there is a family history of inherited illness in case of a history of abnormalities when mother and father are closely related e.g. cousins when either mother or father may be carriers of an abnormal gene which may be inherited by the child and cause a disease or illness. one child already

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TWO marks for the correct answer
The development of a child's ability to control her/his feelings

[2]

b) ONE mark for each correct answer TWO required
Child's inborn temperament
Environment / stability / security
State of health love shown / praise

c) ONE mark for each correct answer THREE required
Skin-to-skin contact / touching / holding / cuddling
Eye-to-eye contact
Familiar smells
Familiar sounds /talking
breast feeding

[3]

d) (i) ONE mark for each correct answer TWO required

Child feeling:
Insecure
Unhappy
Does not thrive physically
Does not learn to deal with their emotions / tantrums / cannot show love
Withdrawn
Attention seeking /smacking / hitting / biting / aggressive

d (ii) TWO marks for correct answer
When the child is over-protected, prevented from becoming independent, given too
much love, not allowed to do things for themselves [2]

[2]

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| | des | |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| (iii) | ONE mark for each correct answer THREE required Constantly picking up the child Not letting him/her play | |
| | Being over-anxious Constantly worrying about how much the child is eating Constantly worrying about the child's sleeping habits | [3] |
| (e) (i) | No discipline ONE mark for the correct answer Dummy Piece of cloth | |
| | Cuddly toy – anything suitable Blanket | [1] |
| (ii) | TWO marks for the correct answer Provides comfort and security | . [2] |
| (f) (i) | TWO marks for the correct answer Reverting to an earlier stage, e.g. child may have been dry at night, b starts wetting the bed. | ut suddenly [2] |
| (ii) | TWO marks for the correct answer Never smack or scold the child. Give extra love and attention. Be patient / praise / encourage | [2] |
| (g) | ONE mark for each correct answer FOUR required Prepare the child for the new baby's arrival Reassure often that he/she is loved and wanted Avoid comparisons with the new baby Encourage him/her to feel more grown up and independent Involve the child when buying equipment for the new baby Encourage the child to help, e.g. when bathing the new baby, to fetch needed. | items [4] |
| 13 (a) (i) | TWO marks for the correct answer Contraception is the deliberate prevention of pregnancy. | [2] |
| (ii) | ONE mark for each correct answer TWO required Male condom Male sterilisation (vasectomy) Abstention Withdrawal | [2] |
| (iii) | ONE mark for each correct answer TWO required Combined pill: Contains two hormones, oestrogen and progestogen. Stops the ovaries from producing eggs. Usually taken for three weeks at a time and then one week off. Does not have to be taken at exactly the same time every day – withi Mini-pill: Contains one hormone, progestogen. Alters the lining of the womb and makes it difficult for an egg to settle Needs to be taken at the same time every day. | |
| (iv) | ONE mark for each correct answer TWO required Diaphragm or cap Intra-uterine device / IUS / Ioop / coil Female sterilisation Injections Implants Patches | [2] |

| | • | • |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| | en de la companya de La companya de la companya del companya de la companya del companya de la c | |
| (v) | TWO marks for the correct answer The penis is withdrawn from the vagina before ejaculation, but some leak out before the main ejaculation takes place, | sperm may |
| (vi) | TWO marks for the correct answer When intercourse takes place without any contraception being used, contraception has failed, then pills can be taken. These are obtained doctor/chemist within 48 hours | or if d from the [2] |
| (vii) | ONE mark for each correct answer THREE required Intra-uterine-device | [3] |
| (viii) | THREE marks for the correct answer A plastic and copper device is put into the uterus and prevents a fert from settling in the uterus. | ilised egg [3] |
| (b) (i) | ONE mark for each correct answer THREE required Too few sperm being produced Failure to ovulate Blocked Fallopian tubes Cervical mucus is too thick | [3] |
| (ii) | TWO marks for each correct answer TWO required Fertility drugs: women who cannot ovulate are given hormones to pro IVF: fertilisation takes place outside the body and the embryo is impleted the uterus. Surrogacy: another woman carries the baby for the couple. Sperm/egg donation: other people donate their sperm or eggs. | |

Artificial insemination

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Section C Answer one question

Marks are awarded depending on the quality of the response.

14 A high level response 14-20

A good candidate will be able to describe the differences between fostering and adopting and explain why some people wish to adopt and how this takes place. Issues may include:

Fostering

Children may return to their own home

Temporary arrangement

Foster parents are paid

Foster parents have no legal rights over the child

Children stay with foster parents for varying amounts of time

Children may become attached to foster parents and it can be difficult for them when they return to their own parents.

Adoption

A legal process where adults become legal parents of the child

Permanent arrangement

Adoptive parents are legally responsible for the child

Natural parents relinquish all parental responsibility

No payment- only those benefits entitled to any parent.

Reasons for adoption:

Unable to have children of their own

Grandparents or other relatives of a child whose parents have died

Mother marries a new husband and they jointly adopt her child

Foster parents who want to adopt a child they have fostered for three years or more.

How adoption takes place:

People who wish to adopt are interviewed by an adoption agency to see if they are suitable

To ensure that they really want to adopt a child

To make sure they are;

Happy

Healthy

In a stable relationship

Can financially afford to adopt

When a suitable child becomes available the child lives with prospective parents for a trial period.

Social worker makes regular visits

Natural parent can change their mind

Child needs to be six weeks old before trial period starts

If trial period is satisfactory then adoption can go ahead.

A mid range response 7-13

Candidates will be able to give some differences between fostering and adopting and briefly mention why people adopt but not how the adoption takes place.

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A low level response 0-6

Candidates will provide a confused answer to the differences between fostering and adopting and may say that people wish to adopt because they cannot have their own children.

15. A high level response 14-20

A good candidate will be able to explain in detail when accidents are more likely to happen and will describe how to make a child's environment safer.

Issues will include; Accidents are more likely to happen:

At times of stress-people become more careless and forgetful

When parents are less alert-senses may be dulled by medicines or alcohol

To children who are over protected-so aware of danger that it makes them nervous or they may rebel against their parents

To children who are under protected- unaware of dangers and fail to take care.

To children who are neglected and abused.

Tiredness/illness

How to make a child's environment safer:

Home

Dangerous objects to be kept out of the way e.g. sharp knives, matches, lighters, Peanuts, plastic bags.

Dangerous situations-children kept away form the kithen by using safety barrier/gate.

Special locks fitted to cupboards.

Socket covers put into electric sockets.

Fireguards to prevents burns

Pan handles at back of the cooker

Windows to be securely fastened

Keep chairs away from windows to prevent climbing

Coil / flex / cooker guards

Garden

Cover ponds or fence off

Fence the whole garden/child proof catches on any gates

Keep all tools locked away

Remove animal droppings

Keep barbecue equipment out of reach

Keep garden toys safe and in good repair

Any chemicals must be locked away

Road and Travel

Teach road safety as soon as possible

Never let children out on the road on their own

Walking reins should be used for small children

Not to talk to anyone in the street unless they know them.

In cars children should be fastened in the correct restraint

Child seat should be anchored in firmly

Booster seats are helpful to allow the seatbelt to fit correctly on an older child

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A mid-range response 7-13

The candidate will be able to provide one or two answers to explain why accidents happen but not in any detail. Some good descriptions on how to make the environment safer.

A low level response 0-6

The candidate may not know why accidents happen but will be able to suggest ways of making the environment safer although these will lack any detail.