

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the June 2005 question paper

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 discussion or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the June 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Grade thresholds for Syllabus 0637 (Child Development) in the June 2005 examination.

| | maximum | minimum mark required for grade: | | | |
|-------------|-------------------|----------------------------------|----|----|----|
| | mark available | А | С | E | F |
| Component 1 | 100 | 75 | 53 | 42 | 30 |

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.

June 2005

IGCSE

MARKING SCHEME

MAXIMUM MARK: 100

SYLLABUS/COMPONENT: 0637/01

CHILD DEVELOPMENT Paper 1



| Page 1 | | Syllabus | Paper |
|--------|---|----------|---------|
| | IGCSE – JUNE 2005 | 0637 | 1 |
| 1 (a) | SECTION A Basic unit of society. Usually related by birth, marriage or adoption. | | [2 x 1] |
| (b) | Extended family Nuclear family One parent family Step – families Shared – care families Foster families any 3 | | [3 x 1] |
| 2 (a) | Testes | | |
| (b) | Ovary | | [2 x 1] |
| 3 | Contraception: sperm and egg prevented from meeting Ovulation prevented Fallopian tubes or sperm ducts cut etc. | 3 | |
| | Or three different methods of contraception | | [3 x 1] |
| 4 (a) | Low sperm count Failure to ovulate Blocked fallopian tubes Cervical mucus too thick Hysterectomy any 3 | | [3 x 1] |
| (b) | Fertility drugs Operation to unblock fallopian tubes I.V.F. Donor insemination Garnete Intra – fallopian transfer Intra – Cyloplasmic sperm injection Surrogacy any 2 | | [2 x 1] |
| 5 (a) | Identical twins: Develop when a fertilised egg splits into two parts and develops into an individual. | l each | |
| | Non identical : Two eggs are released instead of one, and each is fer by a different sperm. | tilised | [2 x 2] |
| (b) | Enjoyment of two babies at once. Family complete wir pregnancy etc. | th one | [2 x 1] |
| 6 | Weaning : Gradual change over from a diet of milk to a vari foods, both solid and liquid. | ety of | [1] |
| 7 | Nature: Inherited intelligence/skills and abilities | | |
| | Nurture: Environmental influence on development | | [2 x 1] |

| Page 2 | | Mark Scheme Sy | | Paper |
|--------|-----|---|--|-----------|
| | | IGCSE – JUNE 2005 | 0637 | 1 |
| 8 | | Sight Hearing Smell Taste Touch | | [4 x 1] |
| 9 | | Production of milk Occurs 3 – 5 days after baby is born | | [2 x 1] |
| | | | [T | otal: 30] |
| | | SECTION B | | |
| 10 | (a) | Any four, 1 mark for reason, 1 mark for suitable comforting. | way of | |
| | | Hunger – feed on demand (2 – 5 hours after last feed Thirst – give boiled then cooled water. Discomfort – check nappy, temperature too hot or co in eyes etc. Pain – if continuous, and 'cuddling' and holding do comfort child; see doctor. Tiredness – 'rock' to sleep; leave to see if cries he sleep. Dislike of the dark – leave on a dim light. Loneliness – pick up and cuddle etc. Colic – pick up and cuddle etc., difficult to comfort. Boredom – carried around; prop up in pram; bo cradle. Noise – try to prevent sudden noises – cuddle; reassi 'Baby manage' may be used in most of above, a soothing music. | Id, light bes not erself to buncing ure. | [8] |
| | (b) | Approximately 1 year | | [2] |
| | (c) | Inherited pattern of development Other aspects of development may have come fi Lack of individual attention from adults Lack of encouragement | rst | [4 x 1] |
| | (d) | Any two examples – must be explained for 2 marks Conversation, stories, rhymes and jingles. | s each: | [2 x 2] |
| | (e) | Read stories to child Talk about stories and pictures Know some nursery rhymes Know that books are fun | | [4 x 1] |
| | (f) | Board book: sturdy – can withstand being in babies m | nouths | |
| | | Texture book: encourage a child to be aware of the sense of touch | | |
| | | Cloth book: washable and strong One example | of each | [3 x 1] |

| Page 3 | | Mark Scheme Syllabus | Paper | |
|--------|-----|--|---------|--|
| | | IGCSE – JUNE 2005 0637 | 1 | |
| 11 | (a) | Enables child to find out Helps towards happiness Helps to prevent boredom Helps to reduce stress Helps to divert aggressive instincts | | |
| | | Each benefit must be explained for 2 marks | | |
| | (b) | One mark for each type plus one mark for suitable example. Any four from: Discovery play Physical play Creative play Imaginative play Manipulative play Social play | [4 x 2] | |
| | | Any suitable examples | | |
| | (c) | 1–2 years – bricks, picture books, push and pull toys, bells, beads etc. | | |
| | | 2–3 years – toys that 'unscrew', posting box, pegboard and hammer, board colours etc. | | |
| | | 3–5 years – drawing and painting sets, dressing up clothes, climbing frames, tricycles etc. | | |
| | | Two examples of each | [3 x 2] | |
| | (d) | Activity mat, squeakers, rattles etc. | [1] | |
| 12 | (a) | Sore gums Increased dribbling Increased fist chewing Red cheek | [4 x 1] | |
| | (b) | Cuddled and comforted Divert attention by giving different play ideas Going for a walk Playing music Telling a story/talking | | |
| | | Three ideas or two well explained | [3] | |
| | (c) | Milk teeth | [1] | |

| Page 4 | | yllabus | Paper |
|--------|--|---------|----------|
| | IGCSE – JUNE 2005 | 0637 | 1 |
| (d) | Fluoride – toothpaste, water supply, drops or tablets | | |
| | Calcium – milk, cheese, white bread, yoghurt, g vegetables etc. | green | |
| | Vitamin A – milk, butter, margarine, carrots, g vegetables etc. | green | |
| | Vitamin C – fruit and vegetables, breast milk etc. | | |
| | Vitamin D – margarine, butter, oily fish, eggs etc. | | |
| | Any 4 – 1 for substance, 1 for example of | each | [8 x 1] |
| (e) | Bacteria in mouth plus sugar from food acid which ca tooth decay | auses | [3] |
| (f) | Too much fat and sugar can cause obesity: More prone to pick up infections Difficult to break habit of early sweet foods Creates a life long problem Sugar causes tooth decay | | |
| | Causes malnutrition: children are not eating a balanced diet, so may dev deficiency diseases, some additives may cause side eff e.g. hyperactivity. Any 3 well explained p | fects, | [6] |
| | SECTION C | | |
| 13 | A higher level response will include full responses from section. | each | [13–20] |
| | A medium level response will either fully respond to aspect and briefly the other section, or respond to section, but without full explanations and discus advantages. | each | [7 – 12] |
| | A low–level response will consist of a brief answer to or both sections. | ne or | [1 – 6] |
| (a) | Answers could include: A first baby A multiple birth A fifth or subsequent birth History of complications Previous stillbirth Narrow/misshapen pelvis Very large/very small/premature baby A very young mother A very overweight expectant mother Mother over 35 years old Known medical problems e.g. diabetes Previous operations on reproductive organs caesarean section | s or | |

caesarean section

| Page 5 | Mark Scheme | Syllabus | Paper |
|--------|---|---|-------|
| | IGCSE – JUNE 2005 | 0637 | 1 |
| (b) | Home Birth : All family involved Mother more relaxed in own home No transportation required Midwife can bring 'TENS', gas and air, and peth the house Can sometimes hire a birth pool for home Freedom to move about anywhere in the home Midwife can carry out an episiotomy if required Mother can determine her own routines and mea May experience less interference Can build up good relationship with the midwife v deliver baby at home | al times | |
| | Hospital Birth: Trained staff available Equipment and staff available Forceps, ventouse, caesarean deliveries have carried out in hospital Epidural only available in hospital Emergency caesarean only available in hospital Parents reassured by 'Safe environment' After birth mother has constant support by midwi Midwives can give mother a break Can share experiences with mothers No worries of home life | | |
| 14 | A higher level response will include full responses: Inborn temperament – requires more careful h than those who are placid by nature A child who has been made to feel extra specia to being difficult to conceive/premature/delicat baby/or has been seriously ill Lack of parental control and guidance: Parents who lack parental skills Parents stressed by unemployment, lack of housing problems Crisis in the family causing unsettlement for family Parent having to look after another family me | al – due e as a money, r whole | |
| | Strategies: Praise and encouragement for good behavior smiling/cuddling/friendly touches/enthusiasm/prajoining in play with child's consent Cut down on constantly telling child what to do give instructions when absolutely necessary Try to say 'No' only when really required Do not criticise | iising/ | |

Introduce a balanced diet