

June 2003

INTERNATIONAL GCSE

MARKING SCHEME

MAXIMUM MARK: 100

SYLLABUS/COMPONENT: 0637/01

CHILD DEVELOPMENT  
Paper 1

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### Section A

- 1** ONE mark for each answer TWO required
- Step
  - Nuclear
  - Extended
  - Foster
  - Adopted
  - Single/one parent
- 2** ONE mark for each answer THREE required
- Love/care
  - Warmth
  - Clothing
  - Shelter
  - Support
  - Praise
  - Protection
  - Encouragement
  - Secure environment
  - Training
- 3** ONE mark for each correct answer TWO required
- Low sperm count
  - Blocked Fallopian tubes
  - Failure to ovulate
  - Thick cervical mucus in the cervix
  - Cancer treatment
- 4** ONE mark for each correct answer SEVEN required
- i - placenta
  - ii - umbilical cord
  - iii - amniotic sac
  - iv - cervical mucus
  - v - cervix
  - vi - foetus
  - vii - uterus wall
- 5 (a)** ONE mark for the correct answer
- Polio
- (b)** ONE mark for each correct answer THREE required
- Diphtheria
  - Tetanus
  - Pertussis

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- 6** TWO marks for each correct answer THREE required
- (a) Running cold water for 10 mins. Dry and cover with a gauze dressing if appropriate.
- (b) keep calm  
do not make the child sick, go to hospital and take the poison with you.
- (c) bend child over your knees and give sharp slaps between the shoulder blades.
- 7** ONE mark for each correct answer TWO required
- Sore gums  
Red cheek  
Increased dribbling  
Increased fist chewing/chewing objects  
Not sucking
- 8** ONE mark for each correct answer TWO required
- Holding and controlling a pencil  
Forming letter shapes  
Learning to spell  
Writing in a straight line
- 9** ONE mark for each correct answer TWO required
- Read stories to the child  
Know some nursery rhymes  
Know that books are fun  
Opportunities to talk about stories and pictures  
Parents seen reading

### Section B

- 10 (a)** TWO marks for the correct answer
- Before birth
- (b) ONE mark for each correct answer THREE required
- Blood pressure  
Weight  
Urine  
Examination of the uterus  
Blood  
Baby's heartbeat

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(c) ONE mark for each correct answer THREE required

- Baby's heartbeat
- Position of the placenta
- Size of baby
- Position of baby
- Age of baby
- Sex of baby
- Number of babies
- To detect abnormalities

(d) (i) ONE mark for the correct answer

When the triple test (AFP) or ultrasound indicate there may be a possible problem.

(ii) TWO marks for the correct answer

A hollow needle is inserted through the mother's abdominal wall and into the uterus to obtain a sample of amniotic fluid.

(e) (i) ONE mark for each correct answer FOUR required

- Diet and health in pregnancy
- How baby develops
- How baby will be born
- Preparing for labour
- Types of pain-relief
- Breast-feeding
- How to look after the baby

(ii) TWO marks for each correct answer TWO required

- To provide help and encouragement to mother
- Understand the progress of pregnancy
- How he can be supportive
- Needs to be prepared for what is to happen

(f) TWO marks for each correct answer THREE required

- May have a smaller baby
- More likely to have a miscarriage
- More likely to have a baby that is stillborn
- May damage brain cells
- After birth, babies inhaling smoke may be more affected with lung problems
- More at risk of cot death

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**11 (a)** ONE mark for the correct answer

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**(b)** ONE mark for each correct answer TWO required

Bodysuits  
 Vests  
 Sleepsuits  
 Cardigan  
 Pramsuits  
 Bootees  
 Mittens  
 Hat  
 Shawl  
 Socks

**(c)** ONE mark for each correct answer FOUR required

Suit the climate  
 Loose  
 Comfortable  
 Porous  
 Flame-resistant  
 Non-irritant/soft  
 Lightweight  
 Easy to wash and dry  
 Easy to put on and take off  
 No loose buttons/long ribbons etc.

**(d)** ONE mark for each answer TWO required

Quick and easy  
 Available in different sizes  
 Nappies for day and night time  
 Stretch waist for comfy fit  
 Fastening tapes – easy to use  
 Nappies designed to prevent sore bottoms  
 Can be thrown away therefore no washing required

**(e)** ONE mark for each correct answer THREE required

Efficient brakes  
 Stable  
 Easy to steer  
 Anchor points for safety harness  
 The right height for parent  
 Value for money  
 Safety mark  
 A basket for shopping underneath to avoid bags tipping up the pram

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**(f)** ONE mark for each correct answer THREE required

- Corner covers e.g. tables
- Keep dangerous objects out of the way, e.g. knives, plastic bags, etc.
- Safety barriers/gates
- Plastic socket covers
- Fireguard
- Cookerguard
- Non-slip floors
- Keep chairs away from windows
- Child locks on cupboards
- Windows locked
- Toughened glass in doors

**(g) (i)(ii)** ONE mark for each correct toy TWO required  
ONE mark for each correct development TWO required

- Mobiles – vision
- Activity centre/gym – co-ordination, hearing, vision
- Musical toy – hearing
- Soft toys – manipulative skills, emotional and social
- Rattles – manipulative skills
- Any suitable toy with a relevant development

**(h)** TWO marks required for each correct answer THREE required

- Talking to the baby
- To include the baby within the family so baby is aware of different sounds
- Skin to skin contact
- Eye to eye contact
- Cuddling the baby
- Keeping the baby close when doing household chores etc.

**12 (a)** ONE mark for the correct answer

- Development of the mind/brain
- Understanding/reasoning

**(b)** ONE mark for each correct answer TWO required

- Genes – nature
- Environment – nurture

**(c)** ONE mark for each correct answer FOUR required

- Talking
- Playing
- Place in a position where the baby can see
- Provide toys/objects
- Allow to practise new skills
- Read and tell stories
- Show pictures

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**(d)** ONE mark for each correct answer FOUR required

- Lack of opportunities
- Nothing of interest
- Constant nagging
- Deafness
- Poor eyesight
- Poor concentration
- Frequent illness
- Frequent absence from school

**(e)** ONE mark for each correct answer TWO required

- Increase knowledge
- Increase awareness
- Helps in listening
- Helps in concentration
- Develops an awareness of colours/shapes/size and numbers

**(f)** ONE mark for each correct answer THREE required

- Having a conversation with numbers in Stories
- Nursery rhymes
- Matching objects to numbers
- Repeating numbers
- Learn to recognise and write numbers

**(g) (i)** ONE mark for the correct answer

- Acting out adult jobs and responsibilities

**(ii)** TWO marks for the correct answer

- Become aware of the world around them
- Understand how others behave

**(h)** TWO marks for each correct answer THREE required

- Provide plenty of opportunities
- Give support and encouragement/praise
- Help them to understand
- Tell them what is happening
- Help to recall
- Set a good example

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

- Using eyes
- Using the hands
- Expression on the face
- Tone of voice

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**(ii)** ONE mark for the correct answer

Non-verbal communication

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

Others talking to them  
Listening  
Practising making sounds  
Copying sounds made by others  
Learning what the sounds mean

**(c)** ONE mark for each correct answer FOUR required

i – three months  
ii – two years  
iii – understand that sounds have meanings  
iv – carry on a simple conversation

**(d)** ONE mark for each correct answer THREE required

Inherited pattern of development  
Concentrating on other aspects of development  
Lack of encouragement  
Lacking in individual attention from adults  
Premature baby  
Only child

**(e) (i)** ONE mark for the correct answer

2-4 years

**(ii)** TWO marks for the correct answer

Be patient  
Do not speak the words for the child  
Do not fuss  
Do not correct the child

**(f) (i)** ONE mark for the correct answer

Will not hear sounds – will not be able to copy sounds

**(ii)** TWO marks for the correct answer

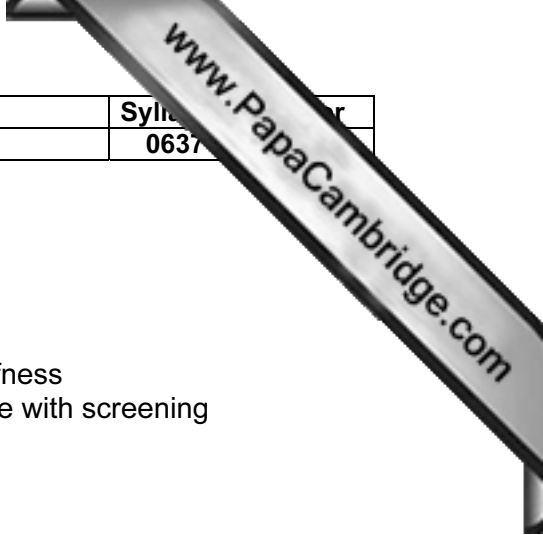
Up to 6 months the baby will gurgle as other babies  
The baby will respond in other ways, i.e. to what they can see and to vibration, e.g. door banging

**(g) (i)** THREE marks for the correct answer

So that treatment can be given as early as possible  
So the child can be trained to reduce the effect of the handicap



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(ii) THREE marks for the correct answer

Obtain advice from doctor or health clinic  
 Routine tests are carried out regularly to test for deafness  
 Regular visits to health visitor/clinic to keep up to date with screening tests

### Section C

14 Marks are awarded according to quality of response.

*High level response 14-20*

A good candidate will cover a wide variety of foods that are suitable for a baby during the whole weaning period in well-documented detail. The response will also cover advice for parents on mealtimes ensuring that the child enjoys the experience in both a positive and negative approach.

*Mid-range response 7-13*

A mid-level candidate will cover foods available in some detail and offer advice for parents, but will lack detail.

*Low level response 0-6*

A low-level candidate will mention some foods although this will lack detail and offer very limited advice for parents.

Look for:

Foods such as baby rice, mashed potato and gravy, mashed banana, stewed fruit, steamed vegetables, meat stew that have been made into a puree or put through a blender for a young baby.

A 6 month old baby can chew so foods such as rusks, sandwiches, piece of fruit, toast, cheese are suitable.

9 months to 1 year babies are on a diet of solid foods and may have given up the bottle or breast and are eating a range of foods like the rest of the family.

There may be a mention of commercially prepared foods.

Enjoying mealtimes advice may include:

Serving food attractively

A variety of food

Serving small portions

Ensuring the food is not too hot

Avoiding strong flavours

Setting a good example

Making mealtimes a social, happy time.

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15 Marks are awarded according to the quality of the response.

*High-level response 14-20*

A good candidate will provide all the three stages of labour in the correct order and in detail. The methods of pain relief will be covered in detail and show a wide variety.

*Mid-level response 7-13*

A mid-level candidate will give the stages of labour in some detail and in the correct order. A few methods of pain relief will be covered.

*Low-level response 0-6*

A low-level candidate will go through the process of labour but not in any detail or may be not in the usual order. Methods of pain relief will be brief.

Look for:

*Stage one*

The neck of the uterus opens. A show-blood stained mucus comes away. The breaking of the waters and regular contractions. During the first stage the contractions slowly pull open the cervix until it is 10cm wide. This is the longest stage of labour and is at an end when the cervix is fully open.

*Stage two*

The baby passes through the birth canal. The uterus, cervix and vagina have now become the birth canal. The contractions are very strong and push the baby along the canal. The mother must also push. Crowning is when the baby's head appears from the vagina. The rest of the body follows and the baby is born. An episiotomy is often made to help the baby out.

*Stage three*

The baby becomes a separate person. The umbilical cord is cut and the contractions continue and push out the placenta.

Methods of pain relief:

Relaxation and breathing exercises – natural way of giving birth.  
 Birthing pools – filled with warm water helps the mother to relax.  
 Pethidine – an injection to ease the pain; can make the baby drowsy.  
 Gas and air – breathed through a mask or mouth piece.  
 Epidural anaesthetic – numbs the lower abdomen, needs to be inserted by a specialist.  
 Music and aromatherapy – may need to be arranged by the mother in advance.  
 TENS machine – pads that are placed on the mother's back and connected to a device that can control pain with a weak electric current.

**Grade thresholds** taken for Syllabus 0637 (Child Development) in the June 2003 examination.

	maximum mark available	minimum mark required for grade:			
		A	C	E	F
Component 1	100	73	47	36	29

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.