

**UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**  
International General Certificate of Secondary Education

**MARK SCHEME for the May/June 2009 question paper**  
**for the guidance of teachers**

**0637 CHILD DEVELOPMENT**

**0637/01**

Paper 1 (Theory Paper), maximum raw mark 100

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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## Section A

- 1 (i) One egg is fertilised  
It then splits in two
- (ii) Two eggs are released  
These two are fertilised [2]
- (iii) Uniovular  
Same egg, therefore same genes etc. [2]
- 2 Testes – sperm produced [1]  
Scrotum – stores sperm outside body at 35°C [1]  
Seminal vesicle – stores and produces seminal fluid [1]
- 3 (i) Cabinet – thermostatically controlled  
Transparent  
Opening lid  
Port holes etc. [4]
- (ii) Filters and humidifies air  
maintains a constant temperature etc. [2]
- 4 (a) (i) 46 [1]
- (ii) Shape of the body  
Colour of skin, hair and eyes  
Blood group  
Age at which teeth occur  
Size of hands and feet  
Maximum height to which child will grow  
(any 5) [5]
- (b) Cystic fibrosis  
Haemophilia  
Thalassaemia  
Sickle cell anaemia  
Muscular dystrophy  
PKU etc. [6]
- 5 Divorce or separation of the parents  
Death of one parent  
Birth to single mother  
One parent away from home for long period – illness – work – imprisonment  
(any 3) [3]

[Total: 30]

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## Section B

- 6 (a) 0–2 – Playing alone  
 2 – Play alongside other children but not with them  
 3 – Children happy to watch and may copy other children  
 3 – Happy to play together and share activities (take on roles) [8]
- (b) Any four of the following suggestions:  
 Holidays                                      Nursery classes  
 Mother/toddler groups                      Zoo  
 Activity clubs                                   Playgroups  
 Parks    Swimming pools  
 Beach     Shopping trips [4]
- (c) Any four of the following points explained:  
 Cultural differences  
 Position in family  
 Genetic disorders  
 Bonding with carer  
 Limited language development  
 Limited opportunities to socialise etc. [8]
- (d) Points must be fully explained:  
 1 point fully explained max 3 marks  
 2 or more points explained can have full marks  
 Praised  
 Supported  
 Feeling of being valued by family and friends etc. [5]
- 7 (a) Six explained points required:  
 Food and drink  
 Shelter  
 Warmth and clothing  
 Love and companionship  
 Protection and support  
 Care and training  
 Secure environment in which to develop  
 Boundaries for behaviour  
 Encouragement with their education [6]
- (b) Extended family consists of:  
 Grandparents, brothers, parents, sisters, aunts uncles and cousins; lot of help and support in bringing up children; emergencies; advice; finance etc.
- Nuclear family consists of:  
 Parents and children; separate unit can live a long way away from relatives; grandparents miss contact with grand children etc. [5]

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- (c) Answers must reflect creating a "happy home life":  
Respect between parents and children  
Children more important than housework  
Realisation of parents that nobody is perfect (self or child, two points)  
Not to expect too much from child  
(any 4) [8]

- (d) A full description of each point is required, three points for full marks:  
Long-lasting responsibility  
Sacrifices from parents required  
Restriction of parents' freedom  
Children bring much pleasure and satisfaction etc. [6]

[Total: 50]

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### Section C

Either part (a) or part (b)

- 13–20 marks – High response – each section answered fully  
 7–12 marks – Medium response  
 0–6 marks – Low level response

8 (a) (i) Answers must be explained with reasons.

- |                          |   |
|--------------------------|---|
| Antiseptic wipes         | – for cleaning wounds                                     |
| Plasters (low allergy)   | – to cover small wounds                                   |
| Gauze dressing           | – to cover large wounds                                   |
| Bandages / adhesive tape | – to hold dressings in place                              |
| Scissors                 | – to cut bandages and tape                                |
| Crepe bandage            | – to support sprained ankle or other joint                |
| Triangular bandage       | – to make sling to support damage arm                     |
| Tweezers                 | – to remove splinters                                     |
| Calamine lotion or cream | – sunburn etc.  |
| Anti-sting cream         | – for insect bites  |
| Plastic gloves           | – to prevent spread of disease through contact with blood |
| Plastic bag              | – for removal of used pieces etc.                         |

(1 mark only for list)

[max 12]

- (ii) Bruise – apply firm pressure on affected area and cold compress  
 Chocking – for a baby and for an older child

Clear descriptions required.

- Cuts – wash with clean water, pat dry with clean cloth – cover with dry dressing held in place with a bandage.  
 – Severe bleeding – apply pressure and seek urgent medical help.

(Each part must be answered, mark available for this section – max 10 marks)[20 marks]

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(b) Each point made must be described.

Food can be contaminated by:

- Dirty hands
- Dirty working areas in kitchen
- Dirty kitchen cloths
- Dirty cooking utensils
- Dirty crockery and cutlery
- Uncooked meat and poultry
- Incorrect storage – cross contamination
- Coughs and sneezes
- Licking utensils/fingers
- Fly's, rats, mice and their droppings
- Septic cuts and sores on fingers of cook. etc.

Answers must be explained.

No credits for repeats.

- Keep food cold – reference to refrigerators and freezers
- Keep food covered
- Hands washed frequently before and during food preparation, with hot water soap and a clean towel
- Clean kitchen – sanitise work surfaces
- Cover cuts etc.
- Do not cough or sneeze over food
- Do not lick fingers
- Keep raw and cooked meat separate
- Cook food thoroughly
- Check 'dates' on food
- Check storage instructions
- Keep pets and vermin away from food preparation areas
- Keep away from kitchen if suffering from diarrhoea or sickness

(Maximum 10 marks for each section)

[20 marks]