



Rewarding Learning

**General Certificate of Secondary Education
2014**

Home Economics (Child Development)

Unit 1

Parenthood, Pregnancy and Childbirth

[GHC11]

WEDNESDAY 28 MAY, MORNING

**MARK
SCHEME**

1 (a) Write down **one** function of:

Answers may address the following points:

(i) the uterus.

- contracts during labour
- holds the baby during pregnancy
- enlarges during pregnancy
- protects baby/provides safe place for baby to develop
- fertilised egg implants
- becomes part of birth canal **either**.

All other valid points will be credited

(1 × [1])

[1]

(ii) the scrotum.

- holds/protects the testes
- stores the sperm
- keeps sperm at correct temperature.

makes sperm = 0

All other valid points will be credited

(1 × [1])

[1]

(iii) the cervix.

- opening neck of the womb
- holds mucus plug
- dilates to 10 cm during birth/opens during birth/widens during labour/opens during birth
- prevents infection
- allows blood or semen to pass through.

or combines with uterus to make birth canal

All other valid points will be credited

(1 × [1])

[1]

(b) Write down **three** possible treatments for infertility.

- IVF
- ICSI – intracytoplasmic sperm injection
- IUI
- GIFT
- egg donation
- operation to unblock fallopian tube **and** reverse vasectomy **and** unblocked sperm tube
- medicines to help fertility/infertility or fertility drugs
- assisted conception.

surrogacy = 0

adoption = 0

All other valid points will be credited

(3 × [1])

[3]

(c) Describe how conception takes place.

- penis enters vagina
- penis ejaculates semen/sperm into vagina
- semen/sperm travels through cervix to fallopian tube
- egg released by ovary
- egg and sperm meet in fallopian tube – conception takes place here
- fertilised egg travels to uterus to develop.

pregnancy takes place = 0

Include fallopian tube for **3 marks**

All other valid points will be credited

(1 × [3])

[3]

9

2 (a) Complete the sentences below:

(i) induction/inducing/induced

(ii) urine/blood

(iii) energy

(iv) gynaecologist

(v) oxytocin

(5 × [1])

[5]

(b) Describe the menstrual cycle.

Answers may address the following points:

- a 28 day cycle
- egg is released from ovary
- uterus lining thickens, ready for egg
- if egg not fertilised lining of uterus comes away as period/bleeding
- lasts 3–7 days
- ovulation day 14.

Does not have to be in order.

List stages = 1

All other valid points will be credited

(1 × [3])

[3]

(c) Describe the roles of the following health professionals.

(i) A paediatrician

Answers may address the following points:

- doctor specialises in the care of babies and young children (2 marks)
- carries out medical check up on babies born in hospital
- supervises the treatment of babies.

All other valid points will be credited

(1 × [2])

[2]

(ii) A midwife

Answers may address the following points:

- advises mother on diet, exercise, any problems at antenatal appointments
- talks to mother about birth plan, birth options, pain relief
- monitors mother during labour, e.g. blood pressure, heart beat, rate of dilation of cervix
- delivers baby (on own or with obstetrician if difficulties arise)
- takes charge of home birth and delivers baby
- helps mother with newborn baby, advises on feeding, baby's progress
- visits mother and newborn at home **until baby is ten days old** – monitors mum's health and emotional/mental state, checks baby's development, weight, feeding and sleeping.

Nurse who specialises in the care of pregnancy and childbirth (2 marks)

carry out tests = 0

delivers baby = 1

All other valid points will be credited

(1 × [2])

[2]

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3 (a) Write down **three** methods of pain relief available at a home birth.

- TENS
- entonox/gas and air
- breathing exercises/relaxation techniques/warm bath/massage
- waterbirth
- pethidine
- aromatherapy/hypnosis/homeopathy/acupuncture.

gas = 0

epidural = 0

breathing = 0

All other valid points will be credited

(3 × [1])

[3]

(b) Explain the following:

(i) ventouse extraction.

Answers may address the following points:

- vacuum suction
- rubber cap connected to a vacuum pump and placed on baby's head
- baby gently pulled out
- can cause slight swelling and bruising to head
- not suitable for breech or premature birth/head needs to be protected.

Explained point could include: difficulty/distressed/mother tired/

epidural can't feel contractions

All other valid points will be credited

(1 × [2])

[2]

(ii) baby in breech position.

Answers may address the following points:

- baby not presenting with head facing down for birth
- baby lying with feet or bottom presenting (1 mark – Explained: 2 marks)
- if baby does not turn to present head down, **birth will be difficult** and dangerous for both mother and baby
- caesarean birth often required – obstetrician and anaesthetist required for operation, longer recovery period for mother after birth.

All other valid points will be credited

(1 × [2])

[2]

- (c) Explain **two** advantages of a pregnant woman attending antenatal appointments.

Answers may address the following points:

- meeting health professionals, e.g. midwife and doctors = reassure
- keep a record of mother's health, e.g. blood pressure, weight
- check baby's development, e.g. scan
- prepares mother for pregnancy, labour and birth, e.g. information on labour, pain relief, birth options
- blood tests – anaemia, blood group, rhesus factor/explanation
- urine tests – protein sign of kidney infection, glucose for gestational diabetes
- **advice** (only award once) on diet/folic acid, eatwell plate, eight tips for healthy eating/lifestyle, e.g. smoking, alcohol, drugs, unprescribed medication
- writing a birth plan, helps mother to make informed choices
- meet other mothers, talk about concerns.

tests = 0

All other valid points will be credited

(2 × [2])

[4]

- (d) Describe what happens during the third stage of labour.

Answers may address the following points:

- shortest stage
- placenta/afterbirth delivered
- umbilical cord clamped or cut
- stitches given if mother has had episiotomy during birth
- injection/syntocin given to cause uterus to contract and prevent heavy blood loss
- baby becomes a separate person
- opportunity for bonding with baby
- baby taken away to be checked/APGAR

baby is born = 0

All other valid points will be credited

(1 × [3])

[3]

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- 4 (a) Discuss the role of grandparents in the family.
- give advice on child rearing practices
 - babysit children, give parents time to themselves
 - read to the children, play with them, talk to them
 - passing on family traditions, culture, beliefs, e.g. sport, religion
 - provides family stability, sense of belonging
 - child-care provision to allow parents to work
 - support family – practical or financial/helping around the house.
- All other valid points will be credited
(1 × [3]) [3]

- (b) Explain two responsibilities **parents** have in meeting the rights of their child, according to the United Nations Convention on the Rights of a Child.

Answers may address the following points:

- grow up in an environment of **happiness, love and understanding/** explanation
- develop their **personalities, abilities and talents/explanation/**rights, beliefs/express themselves
- kept **safe** from **abuse and violence/explanation**
- access to **education/explanation**
- access to **health care/explanation**
- home/shelter.

All other valid points will be credited

(2 × [2]) [4]

7

- 5 Discuss food safety and hygienic practices when **storing, preparing** and **cooking** foods for a pregnant woman. (AO1, AO2, AO3)

Answers may address the following points:

storing

- transferring frozen foods to the home in a cool box
- check temperature of refrigerator 0–5°C/freezer –18°C – listeria risk
- check use by date/best before dates/explanation
- appropriate positions of foods in refrigerator, e.g. raw meat separate from cooked meat to prevent cross-contamination
- do not refreeze food once it has been defrosted
- food being covered
- read storage information on food labels.

preparing

- wash raw fruit and vegetables thoroughly/toxoplasmosis in soil/miscarriage, eye damage, hydrocephalus
- wash hands after handling raw meat, going to toilet/avoid salmonella food poisoning/miscarriage, premature birth
- avoid cross-contamination when preparing food/using different coloured chopping boards for different foods/wash preparation equipment thoroughly/ prevent food poisoning
- good personal hygiene, wearing apron, etc/avoid cross-contamination/ prevent streptococci infections/premature birth/meningitis in baby
- free from illness when preparing food.

cooking

- always follow cooking instructions on food labels, recipes for cooking times and temperatures
- cook meat thoroughly/prevent toxoplasmosis/leads to miscarriage, eye damage, hydrocephalus
- cook poultry thoroughly/salmonella food poisoning/miscarriage, premature birth
- avoid raw or softly cooked eggs/salmonella food poisoning/miscarriage, premature birth
- reheat cook-chill products thoroughly/avoid salmonella food poisoning/ miscarriage, premature birth
- do not reheat food more than once.

All other valid points will be credited

Level 1 ([1]–[3])

Overall impression: basic

- limited range of points, not all explained
- shows basic knowledge of food safety and hygiene practices, may not be applied to pregnancy
- quality of written communication is basic.

Level 2 ([4]–[6])

Overall impression: competent

- good range of valid points with some explanation
- shows good knowledge and understanding of food safety and hygiene practices for pregnancy, **addressing at least two aspects**
- quality of written communication is competent.

Level 3 ([7]–[9])

Overall impression: highly competent

- wide range of valid clearly explained points
- shows excellent knowledge of food safety and hygiene practices with clear application to pregnancy, **addressing all aspects of the question**
- quality of written communication is highly competent. [9]

9

[0] is awarded for a response not worthy of credit

- 6 Emer and Dan are expecting their second baby. Explain the possible impact this could have on the family and their lifestyle. (AO1, AO2, AO3)

Answers may address the following points:

- improve their relationship/stronger bond/need to work together more to share care
- companion for other child
- will have baby equipment and clothes from previous baby/less cost
- life enriched by the presence of another baby/feel more like a family/closer relationships, extended family
- children may have common interests/more choice of toys/more likely to play together
- older child will become independent more quickly/help mother with simple tasks/improves their bond with mother
- father may become more involved with daily care of two children/improve his bond with his children
- financial stress/more clothes, food etc./more equipment/new car/extra childminding costs
- may need to move house/extra bedroom needed/disrupt family life
- less sleep/physical and emotional pressure
- parents relationship under stress/more arguments
- constant care for a newborn and another child/increased risk of post natal depression/extreme tiredness
- social life restricted/resentment from one partner/baby sitters needed
- career changes/father or mother may have to give up work/extra childcare needed
- family holidays limited/newborn's needs/extra costs
- sibling rivalry/bedwetting, tantrums
- older mother – higher risk of disability/impact.

All other valid points will be credited

Level 1 ([1]–[3])

Overall impression: basic

- limited range of points, not all explained
- shows basic knowledge of situation
- quality of written communication is basic.

Level 2 ([4]–[6])

Overall impression: competent

- good range of valid points with some explanation
- shows good knowledge and understanding of situation and includes some reference to impact on family and lifestyle
- quality of written communication is competent.

Level 3 ([7]–[9])

Overall impression: highly competent

- wide range of valid clearly explained points
- shows excellent knowledge and understanding of situation, **must include impact on family (second child) and lifestyle**
- quality of written communication is **highly competent.**

[9]

[0] is awarded for a response not worthy of credit

Total

**AVAILABLE
MARKS**

9

60