MARK SCHEME for the October/November 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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	Page 2		Ν	lark Scheme: Teachers' version	Syllabus	Paper
	10			SCSE – October/November 2009	0637	01
				Section A		
1	Can put	t mother	r's life at	risk/harms baby		[1]
2	(i)	Fallopi	ian tube	 – takes eggs from ovary to uterus – where fertilisation takes place 		[2]
	(ii)	Uterus	5	where baby developswall is muscular and enlarges during pre	gnancy as baby	grows [2]
	(iii)	Ovary		- where eggs are made/female hormones	produced	[1]
	(iv)	Vagina	a	- place where sperm are deposited during	intercourse	[1]
3	 3 Separation anxiety If they cannot see parents they do not understand that they still exist and will be withdrawr Over/under eats Emotionally upset and distressed 					e withdrawn [2]
4	(i)	When	babies c	hange from an all milk diet to milk and solid	s diet	[2]
	(ii)	Approx	ximately 4	4 months		[1]

⁵

Method	How it works	Advantages	Disadvantages
Male condom	Sperm prevented from entering vagina	Free from some places Widely available Protects from STIs	May split Put on correctly etc.
Diaphragm	Prevents sperm meeting egg	No side effects Wide variety of choice	Must stay in place for 6 hours Fitted by Doctor etc.
Intra-uterine device	Prevents implantation of a fertilised egg	Works immediately Can stay in place for 3–10 years	May cause heavy bleeding Not suitable for all Must be fitted by Doctor etc.
Contraceptive implant	Prevents egg and sperm meeting and/or implantation	Effective for 3 years Fertility returns immediately	Can be difficult to remove Can have side effects

[12]

- 6 Safety points
 - Bars 45–65 mm apart
 - Reason to prevent baby's head being caught between them
 Mattress should fit tightly no more than 4 cm anywhere
 - Reason to prevent baby's head, arms or legs being trapped
 Cots have one side which drops down with a catch
 - Reason catch must be too difficult for baby to undo, etc.

[6]

[Total: 30]

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Section B

- 7 (a) (i) Swallowing and sucking reflexes When anything put in mouth baby immediately sucks and swallows.
 - (ii) Rooting reflex Baby turns head as if in search of nipple when gently touched on cheek.
 - (iii) Grasp reflex Baby automatically grasps an object when put into their hand.
 - (iv) Walking reflex Baby will make walking movements with feet touching a firm surface.
 - (v) Startle reflex Fist clench, elbows bent to bring the forearms in, when startled by a sudden loud noise.
 - (vi) Falling reflex (Moro reflex)
 Any feeling a baby gets that they are falling they fling back their arms and open hands, bringing them together as if trying to catch something.
 - (b) Any four ways explained: Hunger Boredom Noise
 - Discomfort Pain Tiredness Dislike of dark Thirst Colic

[4]

 (c) Any three ways described: Rocking the baby Baby massage Making soothing noises e.g. like adult heartbeat Audio tapes of "whooshing" noises

[3]

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	Page 4		Mark Scheme: Teachers' version Syllabus						S	Paper				
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8	(a)	(i)	Poo	r diet/	/not er	nough n	utrients							[1]
		(ii)	Stur	nts gro	owth/c	can effe	ct brain	develo	oment					[1]
	(b)	Cor	anceo rect ergy o	amou	unt of	nutrien	ts for tl	he age	of child	to stay he	althy/energy	input i		as [2]
	(c)	Spi Fat Nut Hig Bra	ty foo s – cl h in s n and	ods – ds – hokin ugar d whe	lead to ng ⁻ – toot	o obesit h decay	/ etc.		celiac dis	sease etc.				
		(1 +	+ 2 × /	4)									[1	2]
	(d)		amin I cium	C	•		ickets/fo eeth an		•	and bones				[2]
	(e)	Two • •	Chile	dren ı		energy f	-			ilk contains jreat quantit	more. y so need w	hole mil	lk etc.	[2]
	(f)	(i)	•	Favo	ertised	characte	arketed ers on p							
		(ii)	• • •	High High High Few	th reas in: Fa in: Su in: Sa nutrie	t ıgar ılt nts							I	[2]
							unable t ves and		ourishing vatives	food				[3]
				-									[Total: 5	
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Section C

Enter part (a) or part (b)

13–20 marks High response – each section answered fully.

7–12 marks Medium response – each part attempted or parts answered in detail.

0–6 marks Low level response – answers lack detail or brief responses.

9 (a) Reasons: Male

- Blocked tubes connecting testicles to seminal vesicles (where sperm is stored).
- Could be caused by sexually-transmitted disease. Ejaculation failure.
- Very low sperm count, could be the man working with pesticides or metals such as lead, mercury etc. Tight underwear and overheating are two other causes.
- Testicular failure, a rare condition when the semen contains no sperm. A poor or unhealthy diet can result in a low sperm count.

Reasons: Female

- Hormonal imbalance causing egg not to be produced.
- Fibroids, totally benign growths in wall of uterus, usually in women over 35 years.
- Blocked fallopian tubes, due to STD, miscarriage or a terminated pregnancy.
- Endometriosis, where patches of uterus lining are found in ovaries, pelvis, fallopian tubes etc.

Treatment includes:

- Drugs for infections
- Counselling
- Good diet plus plenty of exercise, sleep etc.
- Fertility drugs
- Surgery
- IVF (in vitro fertilisation)
- Donor insemination
- Surrogacy etc.

[20]

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OR

- (b) Blood tests
 - Anaemia lack of iron makes mother feel tired and weak.
 - Blood group in case a blood transfusion should be needed in emergency.
 - Rhesus factor, most people have this factor in the blood, and the blood is termed Rhesus positive. Those who do not have it are Rhesus negative. This is inherited. Problems arise where father is positive and mother is negative. It usually causes problems when a second baby is positive the baby may have anaemia and jaundice, may be mentally handicapped, or may even die. Mothers can be given an injection at 28 weeks pregnant again after birth to prevent build-up of harmful substances in her blood which could damage her babies.
 - Immunity to rubella if the mother is not immunised she can have a vaccination after the baby is born.
 - Hepatitis B baby would have to have special care to prevent infection.
 - HIV so that baby can be born in a special way to reduce risk of infection. So mother can receive treatment.

Three required.

Blood pressure check -

To see if rest is necessary perhaps even in hospital if very high. Could be a sign of pre-eclampsia.

Urine test -

To test for sugar – may be diabetic.

To test for protein – could indicate infection of kidneys or bladder, or early sign of pre-eclampsia.

Weight check -

If too much weight is gained, she will be advised to adjust diet to prevent high blood pressure.

Only routine tests acceptable, (now includes ultra sound scan).

[20]

[Total: 20]

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