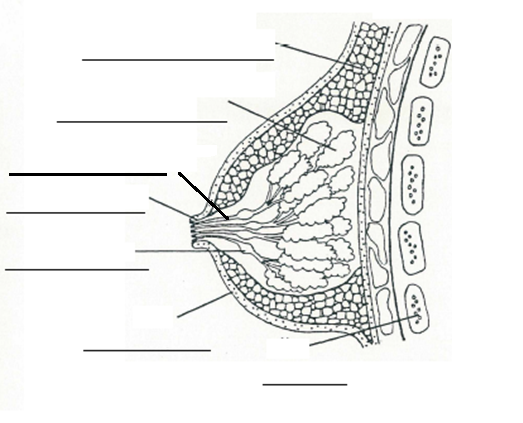
Year 11 Human Biology – Embryonic, foetal development and birth test Mark: /60

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**PART A: MULTIPLE CHOICE**

1. Chose the **incorrect** statement regarding implantation.
2. During fertilization the egg is fertilised by a sperm cell in the uterus.
3. Muscular contractions and cilia in the fallopian tube mores the zygote along.
4. A morula is a solid ball of cells.
5. The blastocyst sinks into the endometrium and firmly attaches to the wall.
6. Choose the **incorrect** statement regarding the placenta.
   1. The placenta is a membrane that develops around the foetus.
   2. The placenta is a combination of foetal and paternal tissue.
   3. The umbilical cord attaches the placenta to the foetus.
   4. Two umbilical arteries carry blood to the placenta from the foetus.
7. What gives the placenta a large surface area?
   1. Chorionic villi.
   2. Endometrium.
   3. Umbilical arteries.
   4. Amniotic fluid.
8. Choose the **incorrect** statement. During week 4 of embryonic development;
   1. The embryo is under 4mm long.
   2. Eyes appear as slits.
   3. Tail is evident.
   4. Brain begins to form.
9. Vernix is;
   1. The substance that is discharged from the umbilical cord after birth.
   2. The placenta and umbilical cord discharged after birth.
   3. The fine hairs that cover the foetus.
   4. The waxy substance covering the baby at birth.

**PART B: SHORT ANSWER**

1)Label the following diagram of a breast (4 marks)

2. Fill in the missing words. (5 marks)

Lactation

a. When the baby sucks on the sensitive nipple, a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is sent along the woman’s nerves to her brain.

b. The brain sends a message to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

c. This produces \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (hormone).

d. The hormone travels in blood to breasts and signals milk cells to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ milk.

Milk let-down reflex

a. Baby’s sucking on mother’s nipple also causes a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be sent along woman’s nerves to her brain.

b. The brain sends a message to the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

c. This produces \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (hormone).

d. This hormone travels in blood to breasts and causes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ around milk-producing cells and ducts to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, squeezing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ out of the nipples.

2) Fill in the table below regarding the changes to the mother after childbirth. (7 marks)

|  |  |
| --- | --- |
| Change | Description |
| Puerperium | ⮚  ⮚ |
| Discharge of  fluid from uterus | ⮚ |
| Blood volume | ⮚ |
| Pulse | ⮚ |
| Emotional  changes | ⮚ |
| Menstrual cycle | ⮚ |

3a) **List** TWO advantages of women using the combined pill as a method of birth control. (2 marks)

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3b) **List** TWO disadvantages of women using the combined pill as a method of birth control. (2 marks)

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4) In-vitro fertilisation (IVF) and gamete intrafallopian transfer (GIFT) are two types of assisted reproductive technologies.

**State** TWO differences between the two types. (4 marks)

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5) **Explain** how fetoscopy works.

What kind of problems can it detect? Give a specific example. (3 marks)

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6) **List** two internal organ changes that occur to both males and females during adolescence. (2 marks)

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7) **Match** the type of motor development with its description. Draw a line to connect them. (2 marks)

Cephalocaudal pattern Development of large muscle movements before finer muscle movements.

Proximodistal pattern Development outwards.

Gross to specific pattern Development from head to foot.

**PART C: EXTENDED ANSWER**

7)A great number of changes occur to the baby’s circulation after birth. Compare the differences of the baby’s circulation before birth and after birth. (16 marks)

You **must** include information on the following four points.

Lungs, ductus arteriosis, foramen ovale and ductus venosus.

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8)Choose an STI from the following list; **describe** it, **describe what causes** it, **two symptoms** and **treatment**. (8 marks)

Gonnorrhoea, syphilis, chlamydia, genital herpes, HIV/AIDS

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