

**YEAR: 11**

**SUBJECT: ATAR HUMAN BIOLOGY UNITS 1 AND 2**

**TEST, Contraception, STIs and Genetics**

**TIME: 60 minutes**

**QUESTIONS: 10 Multiple Choice (10 marks)**

**5 Short Answers (20 marks)**

**1 Extended Answer (10 marks)**

**TOTAL MARKS: 60 marks**

**DO NOT WRITE ON OR MARK THIS PAPER**

**MULTIPLE CHOICE SECTION [20 MARKS]**

**Questions 1-10**

1. It is possible to transmit HIV
   1. through saliva
   2. during childbirth
   3. by discussing the latest Keeping Up With The Kardashians episode
   4. through shaking hands
2. The term ‘’chancre’’ is given to the sores symptomatic of
   1. herpes
   2. syphilis
   3. genital warts
   4. genital herpes
3. This STI may lead to heart disease and insanity.
   1. Gonorrhoea
   2. Chlamydia
   3. Syphilis
   4. Genital herpes
4. The possible symptoms of a syphilis infection during the secondary stage include:
   1. Small sores appearing on the sex organs
   2. Weakening of the blood vessels
   3. Mild fevers and skin rashes
   4. blindness
5. The treatment for gonorrhoea is usually:
   1. antibiotics
   2. laser therapy
   3. antivirals
   4. circumcision

6. The transmission of sexually transmitted infections such as AIDS, syphilis and   
 gonorrhoea can be limited by

1. the oral contraceptive pill.
2. a spermicide.
3. condoms.
4. intra-uterine devices

7. Which of the fertility awareness methods only determines ‘safe’ days by recording   
 the days around ovulation? The

a) rhythm method

b) temperature method

c) mucus method

d) symptothermal method

8. With the exception of sterilisation, the most effective method of contraception now

available is

a) the combination pill

b) the mini-pill

c) NuvaRing

d) Femidom

9. Which of the following is typically associated with having a vasectomy?

a) Decreased testosterone production

b) Reduced rigidity of erections

c) Decreased sperm production

d) Normal orgasm

10. Which of the following methods of contraception operates largely by preventing

implantation rather than preventing fertilisation?

1. diaphragm
2. intra-uterine device
3. the oral contraceptive pill
4. condom



**TEST: Contraception, STIs & Teratogens**

**ANSWER BOOKLET**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Multiple Choice Short Answer Extended Answer Total

**/ 10**

**/ 40**

**/ 20**

**/10**

**SECTION ONE:** Multiple choice answers

Cross (X) through the correct answer.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1** | a | b | c | d |  |
| **2** | a | b | c | d |  |
| **3** | a | b | c | d |  |
| **4** | a | b | c | d |  |
| **5** | a | b | c | d |  |
| **6** | a | b | c | d |  |
| **7** | a | b | c | d |  |
| **8** | a | b | c | d |  |
| **9** | a | b | c | d |  |
| **10** | a | b | c | d |  |

**SHORT ANSWER SECTION [20 MARKS]**

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**Question 11**

What is an IUD (intrauterine device) and how are current market IUDs used to prevent pregnancy? (You only need to discuss one IUD currently on the market) (3 marks)

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**Question 12**

Using a contraceptive method as an example, explain how hormonal contraceptives can prevent pregnancy. (3 marks)

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**Question 13**

a) Explain why it is possible to treat syphilis and gonorrhea with antibiotics, but HIV infection does not respond to antibiotic treatment. (2 marks)

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**Question 14**

What is meant by a ‘teratogen? (2 marks)

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**Question15**

In the table below give an example of a teratogen and the effect it has. (10 marks)

|  |  |  |
| --- | --- | --- |
| Type of teratogen | Example | Effect |
| Infection |  |  |
| Diet |  |  |
| Alcohol |  |  |
| Smoking |  |  |
| Chemicals |  |  |

**EXTENDED ANSWER SECTION [10 MARKS]**

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You must answer **either** question 16 or question 17

(Do not answer both questions, as only your first answer will be marked. Do not answer parts of questions from both questions, as only your first answer will be marked)

**Question 16**

a) Using five examples outline the way HIV may be spread from person to person. (5 Marks)

b) Outline the stages of an infection with human immunodeficiency virus (HIV) that eventually develops into AIDS. (5 Marks)

**OR**

**Question 17**

a) Syphilis, also known as ‘the pox’ undergoes 3 main stages if not treated. Name and describe what happens in each stage. (6 marks)

b) Describe the symptoms of gonorrhoea and why it is considered more serious in women. (4 marks)

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**END OF TEST**