**Reproducing**

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| Instructions to students  • You have 50 minutes to complete the test.  • Please answer all questions in the spaces provided.  • There is to be no talking during the test. | Marks  Section I: Multiple-choice questions: 5 marks  Section II: Short-answer questions: 16 marks  Section III: Extended-response questions: 4 marks  Total: 25 marks |

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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Score: /25  Grade: % |
| Comments: | |

Section I: Multiple-choice questions

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| For each question, circle or highlight the correct answer.  1 Vegetative reproduction is: | |  |
| A | asexual reproduction in plants. |
| B | biodiversity of plants. |
| C | selective breeding of plants. |
| D | sexual reproduction in plants. |
| 2 The function of the placenta is to: | | |
| A | dilate the cervix during labour. | |
| B | break down the endometrial lining if fertilisation has not occurred. | |
| C | allow oxygen and nutrients to pass from the mother to the developing foetus. | |
| D | store sperm until they mature and then release them into the vas deferens. | |
| 3 The process where an egg matures and is released from the ovary is called: | | |
| A | ovulation. | |
| B | fertilisation. | |
| C | menstruation. | |
| D | gestation. | |

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| 4 Assisted reproductive technology (ART) procedures include: | |
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| A | in-vitro fertilisation and immunisation. |
| B | organ transplant and dialysis. |
| C | in-vitro fertilisation and amniotic testing. |
| D | amniotic testing and X-ray. |
| 5 Which one of the following is not a form of asexual reproduction? | |
| A | Binary fission |
| B | Fertilisation |
| C | Parthenogenesis |
| D | Fragmentation |

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|  | Section I  Total marks:  /5 marks |

Section II: Short-answer questions

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| 6 Label parts A–E in the diagram of the female reproductive system below. | | |
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|  | | /5 marks |
| 7 What is the difference between self-pollination and cross-pollination? | | |
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|  | /2 marks | |
| 8 Describe selective breeding. Give an example of why we would do this. | | |
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|  | /3 marks | |
| 9 Explain why the testes are located within the scrotum in most animals | | |
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|  | /2 marks | |

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| 10 Identify two differences between sexual and asexual reproduction. | |
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|  | /2 marks |
| 11 Explain why inbreeding of animals in captivity is a problem and suggest one way in which it can be prevented. | |
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|  | /2 marks |
|  | Section II  Total marks:  /16 marks |

Section III: Extended-response questions

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| 12 Compare and contrast the reproduction of the three types of mammals – placental (e.g. humans), marsupial (e.g. koalas) and monotremes (e.g. platypus). | |
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|  | /4 marks |
|  | Section III  Total marks:  /4 marks |