

Name: _____ Class: _____

Basic Principles of Artificial Insemination Quiz

Answer Key

- List two advantages of using artificial insemination (2 pts):
 - Reduce feed and bull purchase cost
 - Safety
 - Superior genetics
 - Estrous synchronization
 - Control reproductive diseases
 - Accurate breeding records
 - Consistent semen fertility
- List two disadvantages of using artificial insemination (2 pts):
 - More labor required for:
 - Estrus detection
 - Synchronization
 - AI
 - Equipment Cost
- The acceptance of artificial insemination provided for the development of 4 major reproductive technological advances, list 2 (2 pts).
 - Cryopreservation
 - Sexed semen
 - Estrous synch
 - Embryo harvesting, freezing, culture and transfer
- Give two reasons that straws are more commonly used to freeze sperm than ampules (2 pts).
 - Straws require less labor, you can insert them directly into the AI gun for insemination, and you don't have to transfer the semen like you do for ampules.
 - Ampules can explode when frozen, straws do not have this issue.
- How long can semen be frozen in liquid nitrogen (1 pt.)?
 - Almost indefinitely – a very long time
- Given the following information which bull would you choose if you wanted to make sure your calves had good fertility:

Bull A	Bull B
Net Merit = \$607	Net Merit = \$605
CFP = 49	CFP = 117
DPR = 2.0	DPR = 1.2

- Bull A – DPR is daughter pregnancy rate and reflects how fertile an animal will be. The score for Bull A is higher than the score for Bull B.