

STUDY GUIDE FOR EXAMINATION #3B
PHILOSOPHY 2306 (BIOETHICS)
Spring 2010

Define / explain:

Biology =

Bioethics =

Biotechnology =

Genetics =

Genome =

Genomics =

DNA =

Chromosomes =

Gene =

Genotype =

Genetic engineering =

Explain the following perspectives on the acceptance of new technologies:

- 1) Innovators
- 2) Early adapters
- 3) Early majority followers
- 4) Late majority followers
- 5) Laggards

Know the following basic principles of bioethics according to the UNESCO
'Declaration on Bioethics and Human Rights'

3. 'Human Dignity' – Human 'Rights' – 'Fundamental Freedoms'
4. 'Benefits and Harms'
5. 'Autonomy- and 'individual responsibility'
6. 'Informed Consent'
7. 'Capacity to Consent'
9. 'Privacy' and 'Confidentiality'
10. 'Justice' and 'Equality / Equity'
11. Non-Discrimination
12. 'Respect' for 'Cultural Diversity' and 'Pluralism'
13. Human 'Solidarity'
14. 'Social Responsibility'
15. 'Sharing of benefits'
16. 'Protecting Future Generations'
17. 'Protecting the Environment'

Study Guide for Examination #4
Fall 2009

Explain: 'cloning' (somatic cell nuclear transfer) =

reproductive cloning =

therapeutic cloning =

How would a human clone be like an 'identical twin'?

Some arguments / reasons in favor of human cloning:

Some arguments / reasons against human cloning

who was 'Dolly' and when was she produced?

stem cell research =

embryonic stem cells =

‘totipotent’ =

adult stem cells =

‘pluripotent’ =

zygote =

blastocyst =

embryo =

trans-species hybrid animals =

xeno-transplantation =

GM foods (‘Frankenfoods’) =

- some benefits of GM foods:

- some risks of GM foods / crops:

The approach of Deontological ethics – arguments to genetic engineering issues:

The approach of Consequentialist ethics-arguments to genetic engineering issues:

Approach of Character-virtue ethics-arguments to genetic engineering issues:

Explain: Basic Ethical Issues:

‘liberty issue’ (of scientists to use biotechnology)

issue of ‘need-necessity’ (use of biotechnology in particular cases)

‘safety’ issue

issues of animal ‘species integrity’

issue of “changing (human) nature”

human ‘dignity’ issue

issue of ‘playing God’ / *hubris*

issue of ‘commodification’ of life

issue of future ‘unforeseen harms’ of genetic technology

issue of ‘equality and democracy’:

‘access issue’

increased ‘social stratification’ issue

social-personal discrimination issue

issue of healthcare / insurance / employment discrimination

issue of 'impact on the institution and nature of family / kinship relations'

issue: genetic engineering is 'unnatural' therefore immoral

(and the 'yuck factor')

'informed consent' issue

issue of market values and corporate control in decision-making

issue of (adequate?) government *regulation* of biotechnology use

issue of 'designer children'

issue of impact on / attitudes towards disabled persons

know:

Significance of conception for personhood issues:

Significance of embryonic 'twinning' and 'fusion' for personhood issues:

Significance of implantation for personhood issues: