

Biology EOC Review

Review Packet III answers

This answer key may not follow your review sheet exactly, but it will help you to check most of the questions. Circle problem areas, look in your text book for answers and ask me in class.
IGNORE THE PAGE NUMBERS!

Remember to complete your probes and look for **extra credit probes**. . They will only be available for **a short time**.

Stem Cells

1. The diagram to the right shows how stem cells can develop into many types of different cells. What are some of the potential benefits that could come from the growing of stem cells in a laboratory?
**New organs could be grown (no rejection);
 cancerous cells replaced with good cells;
 genetic disorders replaced by new cells.**

2. What are some of the ethical issues surrounding the collection and use of stem cells?
**Embryonic stem cells come from embryos
 and how those embryos are collected is problematic.**



3.05 Examine the development of the theory of evolution by natural selection including: development of the theory, the origin and history of life, fossil and biochemical evidence, mechanisms of evolution, and applications (pesticide and antibiotic resistance).

In the following chart, describe the role of each of the following in developing the current theory of evolution.

	How this supports the evolutionary theory:
Understanding of geology (Changes in the earth) p. 374	Understanding that the earth changes over time explains why organisms might change to fit the new environments.
Malthus' ideas about population Growth p. 374	Organisms reproduce exponentially but the world is not overcrowded by organisms – because they compete to survive
Embryological Similarities p. 385	Similar anatomy early in development suggests similar ancestry .
Patterns in fossil evidence p. 417	Following the patterns and aging the fossils suggests evolutionary trees.
Homologous Structures p. 384	Similar anatomy suggests similar ancestry
Biochemical comparisons (DNA and proteins) p. 394	Similar DNA and/or proteins suggests similar ancestry
The role of variations p. 380, 407	Variations provide the fuel for natural selection . Those variations that are advantageous are selected for; survive and are passed on.
The role of sexual reproduction	Sexual reproduction is a source of variation .

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J Rink



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web dec 21 2020 these winding problems may be found in a three phase motor shorted turns ground winding shorted to frame phase to phase short open winding burned windings from operating on single phase submerged motor assorted rotor problems open rotor bars open end rings misaligned rotor stator iron rotor dragging on the stator

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web dec 3 2019 three phase induction motors are also called asynchronous motors they are the most commonly used electric machines a set of typical arrangements is shown below figure 1 induction motor with stator and rotor 1 figure 2 distributed winding inside stator figure 3 rotor of induction motor with slip rings 2

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