Cheatography

Biology Test (2017) Cheat Sheet by mayaray2 via cheatography.com/46123/cs/13453/

Terms

zygote	cell that develops into offspring
embryo	unprotected or unhatched off spring
genetic diversity	inherited genetic differences in a species
sustaina bility	ability of environment to keep supporting its organisms into future
reprodu ction	ensures life exists beyond its present gen. and species exist in future

DNA

Chromatin	Condensed form of DNA
Nitrogen bases	"steps of DNA"; a with t, c with g
Chromoso mes	condensed chromatin for reproduction
Homolog pairs	chromes that are the same shape, size, have same genetic info in same spot; one from ea. parent

DNA replication

During late interphase, Dna unwinds with enzyme and bases are paired with new bases.

Asexual Reproduction		
binary fission	mitosis in prokaryotes	
budding	buds in multicelluar can detach through repeated mitosis and form separate org.	
frag.	part of multicelluar breaks off due to injury and becomes separate org.	
vegetati ve.	stems, leaves, or roots are used to asex. repro.	
spore	spores grow into new org.	

Cancer (from mutations in cell cycle)

Cancer cells have large nuclei, no use, they attract blood vessels and become tumours, and can metastasize

MITOSIS		
prophase	nuclear membrane disappears, fibres attach to centromeres	
metaphase	chromes align on equator	
anaphase	fibers pull sister ch poles	romatids to
telophase	fibres disappear and membrane reforms around each set	
(cytokinesi s)	cell contents are divided into 2 cells	cleavage furrow or cell plate

Embryo Develop (first 8 wks)

end of week one	ball of cells
end of week two	hollow ball of cells, cell can develop to any kind
3 distinct layers of cells (DIFFERE NTIATION	ecto: skin/ nerves, mes: muscles/bones, end: lungs/liver/digestive system lining
	week one end of week two 3 distinct layers of cells (DIFFERE NTIATION

Asexual v. Sexual

lots of offspring quickly, large colonies can form to out-compete, lots=many may survive if conditions change, less energy	disease/mute=deat h, compete for food and space, bad condition=wiped out
genetic diversity, ext: little energy to mate, more offspring can exist after disaster, int: more protect and care	int: more energy/risk to mate, fewer produced, ext: gams,embryos, offs are unprotect

Fertilization: Pros and Cons external very little energy many g

external	very little energy	many gametes
	mate, lots of	die, many eggs
	offspring, spread	aren't fertilized,
	widely in	offspring are
	evrionment (less	unprotected
	comp.)	
internal	embryo	more energy,
	protected,	fewer zygotes,
	offspring's	more energy to
	parents will	raise
	protect	

Fetal Devlopment

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differenti ation	formation of organs/tissue from gastrula	
1st tri	0-12 wks	development of all organ systems
2nd tri	12- 24	rapid growth (12-16); fetal movements felt
3rd tri	24- 38	continued growth (brain)

MEIOSIS	
prophase	spindle fibres form andcrosspush centris. to poles,overhomolo chromosomesare paired
metaphase	homolo chromosomes align on 2 sides of equator
anaphase	homolo chromosome assort pairs separate to opposite poles
telophase	2 nuclei form, after 2 cells form
Stages of S	Sexual Repro.
Ũ	egg and sperm come together at same time and place
fertilizati ç on	ametes fuse to make zygote

develop embryo develops ment

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