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	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	MITOSIS			
prophase	nuclear membrane disappears, fibres attach to centromeres			
metaphase	chromes align on equator			
anaphase	fibers pull sister chromatids to poles			
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)		
morula	end of week one	ball of cells
blastula	end of week two	hollow ball of cells, cell can develop to any kind
gastrula	3 distinct layers of cells (DIFFERE NTIATION)	ecto: skin/ nerves, mes: muscles/bones, end: lungs/liver/digestive system lining

A	Asexual v. Sexual	
lo	ots of offspring quickly,	disease/mute=deat
lá	arge colonies can form	h, compete for
to	o out-compete,	food and space,
lo	ots=many may survive if	bad
С	conditions change, less	condition=wiped
е	energy	out
Q	enetic diversity, ext: little	int: more
е	energy to mate, more	energy/risk to
С	offspring can exist after	mate, fewer
C	lisaster, int: more protect	produced, ext:
а	and care	gams,embryos,
		offs are unprotect

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

Fetal Devlopment		
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 and push centris. to poles, homolo chromosomes are paired	cross over
metaphase	homolo chromosomes aliquides of equator	gn on 2
anaphase	homolo chromosome pairs separate to opposite poles	assort
telophase	2 nuclei form, after 2 cells	form

Stages of Sexual Repro.		
mating	egg and sperm come together at same time and place	
fertilizati on	gametes fuse to make zygote	
develop ment	embryo develops	



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