Reproduction Review

1.	A diploid cell has the number of chromosomes as a haploid cell.
	(A) one-fourth(B) half(C) twice(D) four times
2.	Mitosis produces
	 (A) two identical cells with paired chromosomes. (B) two non-identical cells with paired chromosomes. (C) four identical cells with single chromosomes. (D) four non-identical cells with single chromosomes.
3.	The process by which a unicellular organism divides by mitosis into two equal halves is called
	(A) sporulation.(B) vegetative propagation.(C) regeneration.(D) binary fission.
4.	Meiosis forms
	 (A) identical cells with diploid chromosomes. (B) non-identical cells with haploid chromosomes. (C) identical cells with haploid chromosomes. (D) non-identical cells with diploid chromosomes.
5.	Which of the following statements applies only to mitosis?
	 (A) It is used for gamete formation. (B) It is the main replication method for sexual reproduction. (C) It produces haploid cells. (D) It produces diploid cells.

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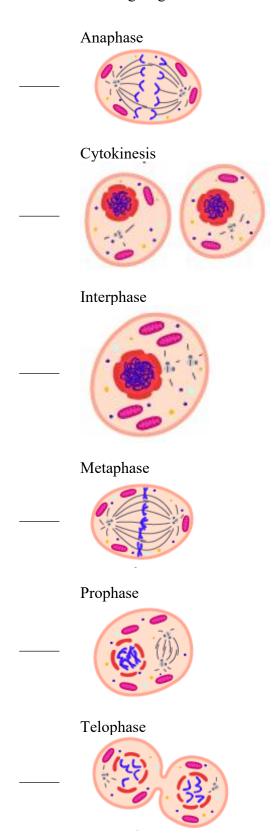
6.	Which form of reproduction is thought to be best in a stable environment?
	(A) asexual(B) sexual(C) budding(D) parthenogenesis
7.	Which form of reproduction can result from damage to the original animal?
	(A) asexual(B) fragmentation(C) budding(D) parthenogenesis
8.	Which form of reproduction is useful to an animal with little mobility that reproduces sexually?
	(A) fission(B) budding(C) parthenogenesis(D) hermaphroditism
9.	Genetically unique individuals are produced through
	(A) sexual reproduction(B) parthenogenesis(C) budding(D) fragmentation
10.	Part of the stem of a plant is attached to a different root stock. This method of asexual reproduction is called
	(A) budding.(B) layering.(C) grafting.(D) fragmentation.

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- 11. Which of the following hormones is released from the anterior pituitary? (A) testosterone (B) estrogen (C) progesterone (D) follicle stimulating hormone (FSH) 12. Testosterone stimulates the production of
- - (A) eggs.
 - (B) sperm.
 - (C) estrogen.
 - (D) human growth hormone.
- 13. Two of the hormones that regulate a female's ovarian and menstrual cycle are
 - (A) testosterone and estrogen.
 - (B) estrogen and progesterone.
 - (C) testosterone and FSH.
 - (D) progesterone and testosterone.

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14. Place the following stages of mitosis in the correct order.



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15.	Which type of cells undergo mitosis?				
16.	Which type of cells undergo meiosis?				
17.	Define the following terms. (a) haploid cell				
	(b) diploid cell				
18.	Which cells in a living thing are haploid?				
19.	Which cells in a living thing are diploid?				
20.	0. What are homologous chromosomes?				
21.	21. Describe two similarities and two differences between mitosis and meiosis.				
	Similarities	Differences			

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22.	Briefly explain of each of the following types of asexual reproduction.				
	(a)	Budding			
	(b)	Vegetative propagation			
	(c)	Fragmentation (regeneration)			
	(d)	Spores			
23.	Brie	efly explain each of the following artificial methods of asexual reproduction.			
	(a)	Grafting			
	(b)	Cuttings			
	(c)	Layering			

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24. Give two advantages and disadvantages of asexual reproduction.

Advantages	Disadvantages

25. Give two advantages and disadvantages of sexual reproduction.

Advantages	Disadvantages

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26. Label the following diagrams of the human reproductive system.

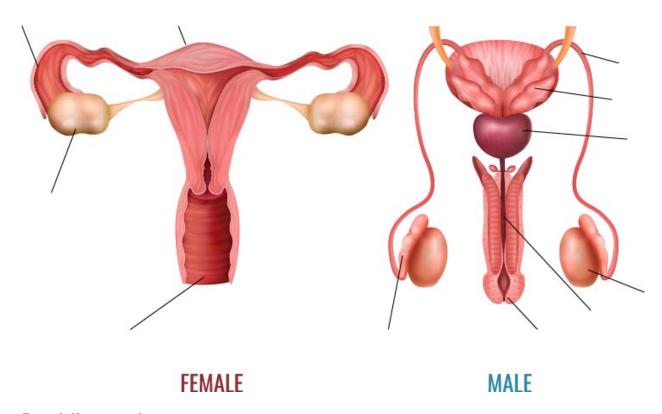


Figure 1- Human reproductive system Credit: macrovector (Adobe Stock Photo)

epididymis	penis	testicle	vagina
fallopian tube	prostate	urethra	vas deferens
ovary	seminal vesicle	uterus	

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27. Match the parts of the female and male reproductive systems with the appropriate function.

	<u>Part</u>			<u>Function</u>		
	A.	epidiymus		connect ovaries to the uterus		
	B. fallopian tubes			produce eggs and sec	crete estrogen	
	C.	ovaries		produce sperm and s	ecrete testoste	rone
	D.	penis	passageway for a baby to leave the mother's			mother's body
	E. prostate gland			secrete substances th	at become par	t of semen
F. testes		testes		path for sperm to lea	ve body throug	gh the urethra
	G. uterus H. vagina			store sperm until they leave the body		ly
				transport sperm from the epididymis to the ureth		
	I.	vas defrens		where a fetus grows	and develops i	antil birth
28.	Fill	in the blanks with words	s from the	word bank.		
	The	e male	cel	l and the female		fuse
	toge	ether to produce a		that t	ravels down th	e fallopian tube to
	the		It g	grows as it travels and	becomes a bla	stocyst. The
blastocyst embeds in the lining of the uterus forming an embryo begins to grow and become more complex. After about eight weeks, it has						
					ks, it has	
	developed specialized cells and most organs. At this stage it is now referred to as a					ed to as a
	·					
	eg	g embryo	fetus	sperm	uterus	zygote

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