## Invitation to the Life Span 3rd Edition Berger Test Bank

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1.	Every person starts life as a single cell called an embryo.  A) True  B) False
2.	Almost every cell in the human body has 23 single chromosomes.  A) True  B) False
3.	Genes are located on chromosomes.  A) True  B) False
4.	The first 22 chromosomes contain hundreds of genes in the same positions and sequence. If the code of the gene from one parent is exactly like the code of the same gene from the other parent, the gene pair is heterozygous.  A) True  B) False
5.	<ul><li>Each variation of a particular gene is called an allele of that gene.</li><li>A) True</li><li>B) False</li></ul>
6.	<ul><li>An individual's collection of genes is called a phenotype.</li><li>A) True</li><li>B) False</li></ul>
7.	<ul><li>An individual's phenotype depends entirely on an individual's genes.</li><li>A) True</li><li>B) False</li></ul>
8.	All humans have about 100,000 genes.  A) True  B) False
9.	If the 23rd pair of chromosomes contains two $X$ chromosomes, that individual is a male. A) True B) False

10.	If the 23rd pair of chromosomes contains one X chromosome and one Y chromosome, the individual is a male.  A) True  B) False
11.	Every ovum a woman creates contains an X chromosome.  A) True B) False
12.	The mother's ovum determines whether the developing baby will become a boy or a girl.  A) True  B) False
13.	Dizygotic twins originate from the same zygote; therefore, they have the same genotype.  A) True  B) False
14.	Almost every trait is polygenic, which means it is affected by many genes.  A) True  B) False
15.	When the effects of genes add up to make the phenotype, they are called dominant–recessive genes.  A) True  B) False
16.	When a person inherits a recessive gene that is not expressed in the phenotype, that person is a carrier of the gene.  A) True  B) False
17.	When the 23 pairs of chromosomes duplicate and form two complete sets of the genome, this process is referred to as duplication.  A) True  B) False

	18.	The first two weeks of prenatal development are called the fetal period.  A) True  B) False
	19.	The cells that result from the early duplication and division processes are called stem cells, which are able to produce any other specialized cell.  A) True  B) False
,	20.	At the end of the embryonic period, the embryo has all of the basic organs and body parts (except sex organs) of a human being.  A) True  B) False
,	21.	The fetus gains about 2 pounds in the third trimester.  A) True  B) False
	22.	Birth takes place around 266 days after conception.  A) True B) False
	23.	The Apgar scale refers to the age at which a fetus might survive if born.  A) True  B) False
,	24.	The Apgar scale measures color, heart rate, cry, muscle tone, and breathing.  A) True  B) False
	25.	A newborn's cry is assessed when assigning an Apgar score.  A) True  B) False
,	26.	Home births are more common in European nations than in the United States.  A) True  B) False

27	<ul> <li>Doulas have been shown to have little benefit in helping women during the birth process.</li> <li>A) True</li> <li>B) False</li> </ul>
28	<ul> <li>Between 8 and 15 percent of all women experience postpartum depression in the days and weeks after giving birth.</li> <li>A) True</li> <li>B) False</li> </ul>
29	<ul> <li>Birth-related complications are more likely when there is a father listed on the birth record.</li> <li>A) True</li> <li>B) False</li> </ul>
30	<ul> <li>The Brazelton Neonatal Behavioral Assessment Scale (NBAS) is a test often administered to newborns that measures responsiveness and records 46 behaviors, including 20 reflexes.</li> <li>A) True</li> <li>B) False</li> </ul>
31	<ul> <li>Couvade is when the zygote embeds itself into the lining of the uterus.</li> <li>A) True</li> <li>B) False</li> </ul>
32	<ul><li>Behavioral teratogens cause physical defects.</li><li>A) True</li><li>B) False</li></ul>
33	<ul><li>Genes can influence the effects of teratogens.</li><li>A) True</li><li>B) False</li></ul>
34	<ul> <li>The most common extra-chromosome condition is fragile X syndrome.</li> <li>A) True</li> <li>B) False</li> </ul>

3	<ul><li>5. The last months of prenatal development are a critical period for body formation.</li><li>A) True</li><li>B) False</li></ul>
3	<ul><li>6. A threshold effect means that some teratogens are virtually harmless until exposure reaches a certain level, at which point they become damaging.</li><li>A) True</li><li>B) False</li></ul>
3	<ul><li>7. Embryos exposed to large amounts of alcohol may develop fetal alcohol syndrome.</li><li>A) True</li><li>B) False</li></ul>
3	<ul><li>8. Teratogens increase the risk of harm but do not always cause damage.</li><li>A) True</li><li>B) False</li></ul>
3	<ul><li>9. The term for a temporary lack of oxygen is <i>anorexia</i>.</li><li>A) True</li><li>B) False</li></ul>
4	<ul><li>0. Low birthweight is defined as a newborn that weighs less than 2,500 grams.</li><li>A) True</li><li>B) False</li></ul>
4	<ol> <li>A "small for gestational age" baby means the same as an "underweight preterm" newborn.</li> <li>A) True</li> <li>B) False</li> </ol>
4	<ul> <li>2. The nations of sub-Saharan Africa have low rates of low-birthweight babies.</li> <li>A) True</li> <li>B) False</li> </ul>

13	Gen	es and alleles for alcohol use disorder have been found exclusively on the Y
₹3.	OCII	es and ancies for alcohol use disorder have been found exclusively on the 1
	chro	omosome.
	A)	True
	B)	False

- 44. Sex (XX or XY) is a factor in explaining why women become drunk on more alcohol than men.
  - A) True
  - B) False
- 45. Genes, culture, and age all affect vision.
  - A) True
  - B) False
- 46. Heritability indicates how much of the variation of a trait within a particular population and in a particular context can be traced to genes.
  - A) True
  - B) False
- 47. Genes affect disorders such as alcohol use disorder and nearsightedness, but research indicates that the environment plays a role as well.
  - A) True
  - B) False

## **Answer Key**

- 1. B
- 2. B
- 3. A
- 4. B
- 5. A
- 6. B
- 7. B
- 8. B
- 9. B
- 10. A
- 11. A
- 12. B
- 13. B
- 14. A
- 15. B
- 16. A
- 17. A
- 18. B
- 19. A
- 20. A
- 21. B
- 22. A
- 23. B
- 24. A
- 25. A
- 26. A
- 27. B
- 28. A
- 29. B
- 30. A
- 31. B
- 32. B
- 33. A
- 34. B
- 35. B
- 36. A
- 37. A
- 38. A
- 39. B 40. A
- 41. B
- 42. B
- 43. B
- 44. B

- 45. A
- 46. A
- 47. A

- 1. Explain how cells, proteins, deoxyribonucleic acid (DNA) molecules, chromosomes, and genes are related.
- 2. Define *genotype* and *phenotype*, explain the impact of both on an individual's traits, and give an example of each.
- 3. Describe how the gender of a fetus is decided at conception.
- 4. Describe the difference between monozygotic and dizygotic twins and how each type is conceived.
- 5. Describe how a one-celled zygote develops into a baby with 5 trillion specialized cells via the processes of duplication, division, and differentiation.
- 6. Describe three of the four surprises revealed upon the completion of the Human Genome Project.
- 7. Explain how color blindness is inherited and why it is much more common in one gender than in the other.
- 8. Briefly describe differentiation, noting when it begins. Give at least two examples of cell differentiation.
- 9. Describe the germinal period, embryonic period, and fetal period of prenatal development. State the length of each period, and detail the major developmental milestones that occur during each period.
- 10. Give a general description of the embryonic period. Detail the embryo's status at the end of this period.
- 11. Explain the procedure known as a cesarean section, and discuss at least two benefits and two risks associated with this kind of delivery.

- 12. Describe the maternal symptoms of postpartum depression. What are two possible outcomes of postpartum depression for the baby?
- 13. Define *couvade*, and give two examples.
- 14. What makes Down syndrome a chromosomal condition? Identify four characteristics often associated with Down syndrome.
- 15. Define *behavioral teratogens*, and give one example. State two potential consequences of exposure to these teratogens.
- 16. Identify at least three teratogens. Because the impact of a teratogen depends on multiple factors, briefly describe two such factors.
- 17. Name four factors that contribute to low birthweight.
- 18. Explain how nature and nurture can interact to result in alcohol use disorder.

## **Answer Key**

All living things are composed of cells. The work of cells is done by proteins. Each cell
manufactures certain proteins according to the instructions stored by molecules of DNA
at the heart of each cell. These coding DNA molecules are on a chromosome. The
instructions in the chromosomes are organized into genes. Genes direct the formation of
specific proteins.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain how five	Explains how all five	Explains how three or	Explains how two or
components are	components are	four components are	fewer components are
related	related	related	related

2. Genotype refers to the collection of genes a person carries in his or her DNA. For example, a person may carry a gene for red hair without having red hair. Phenotype is a person's actual appearance and behavior. In addition to the genes a person inherits, epigenetic factors and the interaction among genes determine the actual traits that are expressed in each person. For example, a person may carry a gene for being tall, but without the nutrition needed may not become tall.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define genotype and	Defines genotype and	Defines either	Cannot define either
phenotype	phenotype	genotype or phenotype	term or confuses the
			terms
Explain the impact of	Explains the impact of	Explains the impact of	Does not explain the
both	both terms	either term	impact of either term
			or confuses the terms
Give an example for	Gives an example for	Gives an example for	Does not give an
both terms	both terms	either term	example for either
			term or confuses the
			terms

3. Sex is determined by the 23rd set of chromosomes. If the set contains two X chromosomes, then the infant is female. If it contains an X and a Y, then the infant is a boy. The mother's egg cell is always an X. Therefore, the father's sperm determines the sex of the infant because the sperm can carry either an X or a Y chromosome.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain how the	Gives the answer	Gives the answer	Just states how a
gender is decided	listed above	listed above using just	father's sperm
		X-Y instead of	determines gender
		mentioning	without explanation
		chromosomes	

4. Monozygotic, or identical, twins result when one ovum is fertilized by one sperm, and the zygote splits into two separate cells. This results in two identical cells that are eventually born as identical twins. Dizygotic, or fraternal, twins result when two ova are fertilized by two different sperms.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe the	States that	Uses the terms	Cannot describe the
difference	monozygotic twins are	identical and fraternal	difference or confuses
	identical and dizygotic	instead of the	the two twin types
	are fraternal	scientific terms	
Explain how each	Explains the	Explains the	Cannot explain the
type is conceived	conception process for	conception process for	conception process for
	both twin types	either twin type	either twin type

5. Within hours after conception, a zygote begins duplication and division. First the 23 pairs of chromosomes carrying all the genes duplicate, forming two complete sets of the genome. These two sets move toward opposite sides of the zygote, and the single cell splits down the center, forming two cells. Each of these cells contains the original genetic code. These two cells duplicate and divide again, becoming four, which duplicate and divide, becoming eight, and so on. At approximately the eight-cell stage, although duplication and division continue, differentiation begins. During differentiation, cells specialize, becoming heart, ear, or liver cells, etc.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe initial	Describes initial	Describes initial	Does not describe
duplication	duplication, using	duplication without	initial duplication
	vocabulary such as	using vocabulary	
	chromosomes and		
	genome		
Describe division and	Describes division and	Is vague about	Cannot describe
differentiation	differentiation,	division <i>or</i>	division and
	including when	differentiation	differentiation
	differentiation begins		

6. Following the completion of the Human Genome Project in 2001, people were surprised to find that (1) humans have far fewer than 100,000 genes, the number often cited in the twentieth century. The total number of human genes is about 20,000 to 23,000. (2) The precise number of genes is unknown because it is not always easy to figure out where one gene starts and another ends, or even if a particular stretch of DNA is actually a gene. (3) Any two men or women, of whatever ethnicity, share 99.5 percent of their genetic codes. (4) The genetic codes for humans and chimpanzees are 98 percent the same, and the genomes for every other mammal are at least 90 percent the same as for people.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe three	Describes three of the	Describes two of the	Describes one or none of
surprises	four surprises outlined	four surprises outlined	the surprises outlined
	above (states far less	above	above
	than 100,000 <i>or</i>		
	approx. 20,000 genes)		

7. Color blindness is an X-linked recessive gene. This means that it is always passed on from a mother on the X chromosome. Because boys have one X and one Y

chromosome, they inherit one recessive gene on the X chromosome and have no dominant chromosome to overpower it on the Y chromosome. This makes them much more apt to be color-blind. Girls have two X chromosomes. This means that they will usually have a dominant gene on the other X chromosome. Thus, they may carry the trait but will not experience it themselves.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain color	Explains how color	Explains that color	Cannot explain
blindness inheritance	blindness is carried on	blindness comes from	sex-linked color
	the X chromosome,	a parent without	blindness inheritance
	making males	identifying the mother	
	vulnerable	or without identifying	
		which gender is	
		vulnerable	
Describe why males	Describes why males	Describes why males	Cannot describe why
are more apt to be	are apt to have it by	are apt to have it	males are apt to have
color-blind	discussing	without discussing	this trait or how
	chromosomes and	why females are	females are carriers
	how females can carry	carriers	
	it		

8. At approximately the eight-cell stage of a zygote, although duplication and division continue, a process called differentiation starts. In differentiation, cells specialize, taking different forms and reproducing at various rates, depending on where they are located. For instance, some cells become part of an eye, others part of a finger, still others part of the brain or heart, etc.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe	Defines differentiation	Defines differentiation	Does not define
differentiation	and gives at least two	and gives one example	differentiation or does
	examples		not give at least one
			example
Tell when it	Knows that it begins	Knows that it occurs	Does not state when it
begins	around the eight-cell	during the zygote stage	occurs or gives the
	stage of a zygote		wrong stage

9. The first two weeks (14 days) of prenatal development are the germinal period. During this time, the zygote experiences cell duplication, division, and differentiation. The major milestone is that the outer cells become the placenta, which enables implantation, and the inner cells form a nucleus that will become the embryo. The embryonic period lasts from the third through the eighth prenatal week (day 14 to 56). The major developmental milestones are the formation of body structures and systems, including a rudimentary central nervous system and circulatory system. The fetal period starts at the ninth prenatal week and ends at birth. Fetal growth, sex organs, and refinement of all the body structures and systems are the major developmental accomplishments.

Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
(- F)	- ·· (- F ·-)	(- o F)

Describe the three	Describes the three	Describes just two of	Describes one or none
prenatal	prenatal periods,	the prenatal periods or	of the periods or their
developmental	including the length of	does not accurately	lengths accurately or
periods, including	each one	describe the length of	confuses the periods
their lengths		all three	
Detail the milestones	Details the major	Details the milestones	Details the milestones
that occur during	milestones for each	for two of the periods	for one or none of the
each period	period		periods or confuses
			them

10. The embryonic period covers the third through the eighth week of development. This period begins when a thin line (called the primitive streak) appears down the middle of the cell mass. That line becomes the neural tube, eventually becoming the central nervous system, including the brain and spine. It is during this time that differentiation leads to the formation and development of all major internal and external body systems. By the end of this period, all body systems are present and functioning with the exception of sex organs.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe the	States the time period	States the time period	Cannot state the time
embryonic period	and what occurs to the	or what occurs to the	period covered or
	embryo (differentiation	embryo	what occurs to the
	into three layers)		embryo
Detail fetal status	States that all body	States that all body	Does not state that all
	systems are present with	systems are	body systems are
	the exception of sex	present—but includes	functioning
	organs	the sex organs	

11. A cesarean section (c-section) is also known as a surgical birth. Incisions through the mother's abdomen and uterus allow the fetus to be removed quickly, instead of being delivered through the vagina. Generally, cesareans are (1) safe for mother and baby and (2) can save a baby's life when the infant's head is too large for the pelvis. Advantages for hospitals include (3) ease in scheduling, (4) quicker than vaginal deliveries, and (5) more profitable than vaginal deliveries. Drawbacks include (1) complications after birth, (2) a reduction in breast-feeding, and (3) by age 3, children born by cesarean have double the rate of childhood obesity.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain the	Explains the	Explains the	Does not explain the
procedure	procedure, stating that	procedure without	procedure
	it is also called a	extra details	
	c-section or surgical		
	birth		
Discuss the risks and	Discusses two or more	Discusses two risks or	Does not discuss at
benefits	risks and two or more	two benefits or one	least one risk and one
	benefits	risk and one benefit	benefit

12. Symptoms of postpartum depression include a mother's deep sadness and feelings of inadequacy, including feeling burdened by baby care, ignoring the baby's needs, and

thoughts of neglecting or hurting the infant.

Possible outcomes for the baby include inadequate food and care, possible abuse or neglect, lack of social stimulation, and the likelihood of behavioral problems later on.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Describe the maternal symptoms of postpartum			Does not describe a symptom
depression			
Name two possible outcomes for the baby	Names two possible outcomes	1	Does not name a possible outcome

13. Couvade is when fathers have biological experiences related to pregnancy and birth. For example, many fathers experience symptoms of pregnancy including weight gain, indigestion, and pain during the mother's labor. Also, fathers are vulnerable to depression.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define couvade	Defines couvade	Gives a vague	Fails to define
		definition	couvade
Give two examples	Gives two examples	Gives one example	Gives no example or
			an incorrect example

14. Down syndrome occurs when a person has three copies of chromosome 21. Some 300 distinct characteristics can result from that third chromosome 21. No individual with Down syndrome is identical to another, but the syndrome usually produces a thick tongue, a round face, slanted eyes, hearing problems, heart abnormalities, muscle weakness, and short stature. Intellectual development is often slow. Family context, educational efforts, and possibly medication can decrease the harm.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Identify how Down	Explains how it is	Is vague about how	Cannot explain how
syndrome is a	caused by three copies	Down syndrome	Down syndrome
chromosomal	of chromosome 21	occurs or fails to	occurs
condition		mention the	
		chromosome number	
List four	Lists four	Lists three	Lists two or fewer
characteristics	characteristics from	characteristics from	characteristics from
associated with	the list above	the list above	the list above
Down syndrome			

15. Behavioral teratogens are substances and conditions that do not cause physical defects in a developing fetus but increase the risk of harm to the child's brain, impairing the future child's intellectual and emotional functioning. For example, if a pregnant mother drinks alcohol, the fetus's brain could be damaged. Consequences of exposure to behavioral teratogens include hyperactivity, learning disabilities, and antisocial behavior.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Define behavioral	Defines the term and	Defines the term such	Does not accurately
teratogens	expresses that these	that it could also	define the term
	cause brain damage,	include physical	
	not physical defects	defects	
Name at least two	Names at least two	Names one behavioral	Does not name a
behavioral teratogens	behavioral teratogens	teratogen	common behavioral
			teratogen or gives an
			example of one that
			causes physical
			defects
State two potential	States two potential	States one potential	Does not state a
consequences	consequences	consequence	potential consequence
			or states a physical
			defect

16. Teratogens include any influence on the pregnant mother, including malnutrition, stress, exposure to drugs, viruses, or pollutants. Teratogens increase the risk of harm to a developing embryo or fetus, but they do not always cause damage. (1) Timing is critical because some teratogens may cause damage only during a critical period. (2) The dose and/or frequency of exposure is important. Usually, the greater the dose or exposure, the greater the risk of fetal abnormalities. (3) Finally, the genes of the developing embryo or fetus can influence the effects of teratogens because some embryos or fetuses are more genetically vulnerable to certain teratogens.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Identify teratogens	Identifies three or	Identifies two	Fails to identify more
	more teratogens;	teratogens; answer	than one teratogen
	answer may be	may be specific	
	specific (alcohol,	(alcohol, crack,	
	crack, marijuana,	marijuana, pesticides,	
	pesticides, etc.)	etc.)	
Describe two factors	Describes two factors	Describes one factor	Does not describe a
that influence	from the list above	from the list above	factor
teratogens' impact			

17. Low birthweight can be caused by maternal drug use, especially smoking, maternal or fetal illness, underage (teen) mother, underweight, undereating, poor maternal nutrition, and environmental pollution.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Name four factors of	Names four of the	Names three of the	Names two or fewer
low birthweight	factors from the list	factors from the list	of the factors from th
	above	above	list above

18. Nature and nurture can both contribute to a person experiencing alcohol use disorder. In some individuals, genes (nature) can create the addictive desire to drink to excess. In addition, each human body metabolizes alcohol differently. Sex and gender also affect

the risk of the disorder. For biological reasons, women become drunk on less alcohol than men.

The environment and social factors (nurture) are important. For example, many cultures encourage men to drink but not women. In Japan, both sexes have the same genes for metabolizing alcohol, yet women drink only about one-tenth as much as men. When women of Japanese ancestry live in the United States, their alcohol consumption increases.

	Good (5 pts)	Fair (3 pts)	Weak (1-0 pts)
Explain how nature	Explains how both	Explains how either	Cannot explain how
and nurture can result	nature and nurture can	nature <i>or</i> nurture can	either contribute to
in alcoholism	contribute to	contribute to	alcoholism <i>or</i>
	alcoholism	alcoholism	confuses the terms

1.	Units of instructions for cells that are located on chromosomes are
2.	Almost every human body cell contains chromosomes.
3.	Each variation of a gene is called a(n)
4.	A sperm or an ovum that can produce a new individual when combined with another from the other sex is called a
5.	The first 22 chromosomes contain hundreds of genes in the same positions and sequence. If the code of the gene from one parent is exactly like the code on the same gene from the other parent, the gene pair is
6.	Genes that have various alleles are called
7.	The first 22 chromosomes contain hundreds of genes in the same positions and sequence. If the code of the gene from one parent differs from the code on the same gene from the other parent, the gene pair is
8.	Small variations, mutations, or repetitions in DNA code in the base pairs or triplets that could make a notable difference in the proteins and thus, eventually, in the person are called
9.	A person's collection of genes is referred to as his or her
10.	An individual's appearance, behavior, personality, intelligence, and all other traits is their
11.	The entire packet of instructions that make a living organism is called the
12.	If the 23rd pair of chromosomes is, the individual will be female.

13.	Jenny learned in her high school science class that a female has on the 23rd pair of chromosomes.
14.	If the 23rd pair of chromosomes is, the individual will be male.
15.	Grace learned in her high school science class that a male has on the 23rd pair of chromosomes.
16.	Michelle and Greg are having a baby and are hoping for a boy is responsible for determining the sex of the baby.
17.	Identical twins are also called twins.
18.	Jenny and Tina are identical twins. They are the result of
19.	Monozygotic twins have percent of their genes in common.
20.	Fraternal twins are also called twins.
21.	Brandon and Brianna are fraternal twins. They are the result of
22.	Katie rushed into the house after school and announced to her parents, "So many genes make me who I am, which means my personality is!"
23.	refers to a trait that is affected by many factors, both genetic and environmental, that enhance, halt, shape, or alter the expression of genes, resulting in a phenotype that may differ markedly from the genotype.
24.	When the effects of genes add up to influence the phenotype, they are called genes.
25.	The interaction of a heterozygous pair of alleles in such a way that the phenotype reflects one allele more than the other is referred to as a

26.	When someone inherits a recessive gene that is not expressed in the phenotype, that person is a(n) of that gene.
27.	Hunter has inherited genes that put him at risk for developing diabetes. However, he does not develop diabetes because of his healthy diet and exercise. This example demonstrates that human characteristics, including diabetes, are
28.	Cells that are able to produce any other cells are calledcells.
29.	A high school science teacher asks the students to name the cells that could be used to produce any other cell in the body. If the students respond with cells, they will be correct.
30.	After about the eight-cell stage within the zygote, cells start to, meaning that they take different forms and reproduce at various rates depending on where they are located
31.	The process in which the developing organism embeds itself into the lining of the uterus is called
32.	A uses sound waves to generate an image of a fetus in utero.
33.	The age at which a fetus may survive if born too early is known as the
34.	The fetus usually gains at least pounds in the third trimester.
35.	On average, a first baby is born after hours of active labor.
36.	Birth attendants assess the newborn's health at one minute and five minutes after birth using the
37.	A surgical birth, in which incisions through the mother's abdomen and uterus allow the fetus to be removed quickly, is referred to as a

38.	By 2008 in the United States, the rate of c-sections had risen to percent.
39.	Violeta is in labor and has requested a pain reliever known as a(n), which is an injection given in the spine to alleviate pain.
40.	Epidurals, often used in hospital births to manage pain during childbirth, have been shown to decrease the newborn's readiness to
41.	Labor that is started, speeded, or strengthened with a drug is referred to as
42.	Most births in the United States take place in
43.	In the United States, less than 1 percent of births occur at
44.	A woman who helps with the birth process, who is likely to arrive at the woman's home during early labor and later work alongside a hospital's staff, is called a
45.	The is a test often administered to newborns that measures responsiveness and records 46 behaviors, including 20 reflexes.
46.	A newborn's involuntary response to a particular stimulus is a(n)
47.	After giving birth to her first child, Malia experienced a deep sadness that made caring for her child (and herself) difficult. Her husband called the family's doctor, who suggested Malia may have
48.	A father's presence at a child's birth the likelihood of birth complications.
49.	Malek gained weight and experienced nausea when his wife, Kayla, was pregnant.  Malek experienced
50.	Trisomy-21 is also called

51.	is a condition in which a person has 47 chromosomes instead of the usual 46, with three rather than two chromosomes at the 21st position.
52.	The cognitive deficits caused by the genetic condition of are the most common form of inherited intellectual disability.
53.	Any agent or condition that increases the risk of prenatal abnormalities and birth complications is called a
54.	Agents and conditions that can harm the prenatal brain, impairing the future child's intellectual and emotional functioning, are called teratogens.
55.	Some teratogens are not harmful unless exposure reaches a certain level; this is called the effect.
56.	The cluster of birth defects, including abnormal facial characteristics, slow physical growth, and intellectual disabilities, that may occur in the child of a woman who drinks alcohol while pregnant is called
57.	A maternal diet adequate in folic acid substantially reduces the risk of fetaldefects.
58.	Juan is 5 years old and is confined to a wheelchair because he can't control any of his muscles. Juan's impaired motor control was the result of damage to his brain's motor centers at birth. Juan has
59.	When Elyse was born, she suffered a lack of oxygen for a brief amount of time. Elyse experienced
60.	The result of a laboratory test that reports something as false when in fact it is not false is referred to as a
61.	The term for a baby whose birthweight is significantly lower than expected, given the time since conception, is

62.	Research indicates that alcohol use disorder is caused by
63.	The statistic that indicates how much of a variation in a particular trait within a particular population and in a particular context and era can be traced to genes is
64.	As video games and studying have kept more American children indoors, the rate of has increased.

## **Answer Key**

- 1. Genes
- 2. 46
- 3. allele
- 4. gamete
- 5. homozygous
- 6. polymorphic
- 7. heterozygous
- 8. copy number variations
- 9. genotype
- 10. phenotype
- 11. genome
- 12. XX
- 13. XX
- 14. XY
- 15. XY
- 16. Greg
- 17. monozygotic
- 18. one ovum fertilized by one sperm that splits apart
- 19. 100
- 20. dizygotic
- 21. two separate ova that were fertilized by two separate sperm
- 22. polygenic
- 23. Multifactorial
- 24. additive
- 25. dominant–recessive pattern
- 26. carrier
- 27. epigenetic
- 28. stem
- 29. stem
- 30. differentiate
- 31. implantation
- 32. sonogram
- 33. age of viability
- 34. 4.5 (4 1/2)
- 35. 12
- 36. Apgar scale
- 37. cesarean section (c-section)
- 38. 34
- 39. epidural
- 40. suck (breast-feed)
- 41. induced
- 42. hospital labor rooms
- 43. home
- 44. doula

- 45. Brazelton Neonatal Behavioral Assessment Scale (NBAS)
- 46. reflex
- 47. postpartum depression
- 48. reduces
- 49. couvade
- 50. Down syndrome
- 51. Down syndrome
- 52. fragile X syndrome
- 53. teratogen
- 54. behavioral
- 55. threshold
- 56. fetal alcohol syndrome (FAS)
- 57. neural-tube
- 58. cerebral palsy
- 59. anoxia
- 60. false negative
- 61. small for gestational age
- 62. a combination of nature and nurture
- 63. heritability
- 64. nearsightedness (myopia)

1. The shighe centrollined from the union of two gametes, a sperm and an ovum,		single cen formed from the union of two gametes, a sperm and an ovum, is called a
	B) C)	chromosome phenotype genotype zygote
2.	A) B) C)	ry person begins life as a single cell, which is called a  chromosome  zygote  genotype  deoxyribonucleic acid (DNA)
3.	A) B) C)	living things are composed of cells. The work of cells is done by  proteins  zygotes  genotypes  deoxyribonucleic acid (DNA)
4.	A) B) C)	h molecule of deoxyribonucleic acid (DNA) is stored on a(n)  chromosome  RNA  gene  zygote
5.		of the 46 molecules of DNA (in 23 pairs) that virtually each cell of the human body ains and that, together, contain all the genes is called a(n) chromosome allele genotype zygote
6.	Eacl A) B) C) D)	h human body cell contains  46 pairs of chromosomes  46 chromosomes  23 chromosomes  20 pairs of chromosomes

7.	A small section of a chromosome that is the basic unit for the transmission of heredity a  A) chromosome  B) gene  C) genotype  D) zygote
8.	The first 22 chromosomes contain hundreds of genes in the same positions and sequence. If the code of the gene from one parent is exactly like the code on the same gene from the other parent, the gene pair is  A) homozygous  B) heterozygous  C) monozygotic  D) dizygotic
9.	A variation that makes a gene different in some way from other genes for the same characteristics is a(n)  A) chromosome  B) zygote  C) genotype  D) allele
10.	Differences among people begin with alleles, which can be caused by transpositions, deletions, or repetitions of base pairs, making some genes  A) polymorphic  B) multimorphic  C) allelemorphic  D) transmorphic
11.	The first 22 chromosomes contain hundreds of genes in the same positions and sequence. If the code of the gene from one parent differs from the code on the same gene from the other parent, the gene pair is  A) homozygous  B) heterozygous  C) monozygotic  D) dizygotic

12.	Each gene directs the formation of specific proteins made from a string of amino acids.  A) 10 B) 20 C) 30 D) 40
13.	The instructions for making amino acids are on about 3 billion pairs of chemicals called
	A) couple pairs B) foundation pairs C) base pairs D) copy pairs
14.	The process of methylation can do all of the following to genetic instructions EXCEPT
	A) alter them B) connect them C) remove them D) transcribe them
15.	An individual's genetic inheritance is called a(n)  A) phenotype  B) allele  C) genotype  D) gamete
16.	The is the person's appearance, behavior, and brain and body functions.  A) phenotype B) allele C) genotype D) gamete
17.	Isaac and Xavier are playing basketball. Isaac shoots the ball and Xavier blocks the shot. Isaac says, "Wow, I didn't realize how tall you were until you did that!" Xavier's comment refers to Isaac's  A) phenotype B) allele C) genotype D) gamete

18.	<ul> <li>An individual's phenotype is dependent on</li> <li>A) an individual's genes</li> <li>B) the environment</li> <li>C) an individual's genes and the environment</li> <li>D) an individual's genes during prenatal development and the environment postnatally</li> </ul>
19.	The name of the full set of genes that provides the instructions for making an individual member of a certain species is the  A) phenotype B) genotype C) genome D) allele
20.	The worldwide effort to map the complete human genetic code was called the  A) Hap Map  B) Apgar scale  C) Human Genome Project  D) Brazelton Assessment
21.	Each human has about genes. A) 10,000 B) 20,000 C) 30,000 D) 40,000
22.	On the 23rd pair of chromosomes, males have  A) two X chromosomes  B) two Y chromosomes  C) an X and a Y chromosome  D) just a Y chromosome
23.	On the 23rd pair of chromosomes, females have  A) two X chromosomes  B) two Y chromosomes  C) an X and a Y chromosome  D) just a Y chromosome

24.	<ul> <li>On the 23rd pair of chromosomes, have two X chromosomes.</li> <li>A) females</li> <li>B) embryos</li> <li>C) sperm</li> <li>D) males</li> </ul>	
25.	Males have one X and one Y chromosome on  A) each sperm B) the 43rd chromosome C) the 23rd pair of chromosomes D) each stem cell	
26.	Brian and Diana are having a baby and are hoping for a boy. Who is respondetermining the sex of the baby?  A) Diana B) Brian C) both of them D) neither of them	nsible for
27.	. Eric learned in his college biology class that, with respect to the sex chron	nosomes, the
	A) Y chromosome is larger than the X chromosome and has more genes B) X chromosome is larger than the Y chromosome and has more genes C) X and Y chromosomes are the same size, but the X chromosome has D) X and Y chromosomes are the same size and have the same number	more genes
28.	<ul> <li>Couples can select the sex of a child by all of the following methods EXC</li> <li>A) inactivating X or Y sperm before conception</li> <li>B) selecting only X eggs for fertilization</li> <li>C) aborting XX or XY fetuses</li> <li>D) undergoing in vitro fertilization and then inserting only male or female</li> </ul>	
29.	<ul> <li>In China, a "one-child" policy implemented in about 1979 cut the birth ra Although the intended goal of reducing poverty was achieved, several uniconsequences were identified. All of the following were unintended conse EXCEPT for</li> <li>A) far more unmarried young men in China than women</li> <li>B) millions of newborn girls being placed up for adoption</li> <li>C) males living longer than females</li> <li>D) increased abortions of female fetuses</li> </ul>	ntended

30.	Identical twins are also called twins.  A) monozygotic  B) dizygotic  C) zygotic  D) gamete
31.	Juan and Joaquin are identical twins. They are the result of  A) one ovum fertilized by one sperm that split into two zygotes  B) two separate ova that were fertilized by two different sperms  C) one ovum that was fertilized by two sperms  D) two ova that were fertilized by one sperm
32.	Fraternal twins are also called twins.  A) monozygotic  B) dizygotic  C) zygotic  D) gamete
33.	Blaire rushed into the house after school and announced to her parents, "My personality is! So many genes make me who I am!"  A) polygenic  B) nonadditive  C) multifactorial  D) monozygotic
34.	Elyse and Ellen are fraternal twins. They are the result of  A) one ovum fertilized by one sperm that split into two zygotes  B) two separate ova that were fertilized by two different sperm  C) one ovum that was fertilized by two sperms  D) two ova that were fertilized by one sperm
35.	Allyson and Miles were planning on starting a family. Allyson's extended family has several sets of dizygotic twins. Allyson asked her doctor what could cause her to have dizygotic twins. The doctor informed her that the likelihood of having dizygotic twins will be determined by  A) her husband's genes  B) her genes  C) the environment  D) an interaction between her genes and the environment

36.	The interaction of a heterozygous pair of alleles in such a way that the phenotype reflects one allele more than the other is referred to as a(n)  A) additive pattern  B) multifactorial pattern  C) dominant–recessive pattern  D) polygenic pattern
37.	Which female is more likely to naturally conceive dizygotic twins?  A) a woman from Japan  B) a woman from Korea  C) a woman from China  D) a woman from America
38.	Which female is more likely to naturally conceive dizygotic twins?  A) a 20-year-old woman  B) a 25-year-old woman  C) a 30-year-old woman  D) a 35-year-old woman
39.	After twins are conceived, their chance of survival until birth depends on the prenatal circumstances. An early sonogram might reveal two developing organisms, but later only one embryo continues to grow. This is referred to as the twin phenomenon.  A) vanishing  B) disappearing  C) terminated  D) missing
	Dizygotic twins have of their genes in common.  A) 25 percent  B) 50 percent  C) 75 percent  D) 100 percent
41.	Twins who are the same sex and are similar in appearance and traits are  A) monozygotic twins  B) dizygotic twins  C) monozygotic or dizygotic twins  D) not possible to determine if they are monozygotic or dizygotic twins

42.	Almost every trait is, which means it is affected by many genes.  A) polygenic B) nonadditive C) X-linked D) monozygotic
43.	A trait that is affected by many factors, both genetic and environmental, that enhance, halt, shape, or alter the expression of genes, resulting in a phenotype that may differ markedly from the genotype, is said to be  A) polygenic B) nonadditive C) multifactorial D) monozygotic
44.	Akira was born with genes that enabled muscle coordination, but his environmental experiences never supported the development of his potential athletic ability, so he never became a professional athlete. This example illustrates the concept of a trait being  A) polygenic  B) nonadditive  C) multifactorial  D) monozygotic
45.	When the effects of genes add up to make the phenotype, they are called genes.  A) dominant B) recessive C) additive D) nonadditive
46.	Vinaya learned from her science teacher that her height probably resulted from about 180 genes, each contributing a tiny amount of genetic information. Vinaya learned that her height resulted from  A) additive genes  B) dominant genes  C) recessive genes  D) nonadditive genes

47.	brown eyes were determined by a allele.  A) dominant  B) recessive  C) dominant–recessive  D) dizygotic
48.	Laurel has a recessive gene in her genotype that is not expressed in her phenotype. She is a(n) of that gene.  A) recipient B) carrier C) expressor D) reactor
49.	A gene carried on the X chromosome is said to be  A) X-linked B) polygenic C) multifactorial D) recessive
50.	Michael is color-blind. His gene for color blindness is most likely a  A) dominant gene on his X chromosome  B) dominant gene on his Y chromosome  C) recessive gene on his X chromosome  D) recessive gene on his Y chromosome
51.	are more likely to be carriers of X-linked traits, and are more likely to express them.  A) Females; males B) Females; females C) Males; females D) Males; males
52.	Epigenetics means that a trait  A) is determined by genes alone  B) is determine by the environment alone  C) is determined by genes and the environment  D) is determined by genes more than the environment

53.	Oliver has inherited genes that put him at risk for developing diabetes, but because of his healthy diet and exercise he is not diabetic. This example demonstrates that human characteristics, including diabetes, are  A) polygenic B) nonadditive C) multifactorial D) epigenetic
54.	In describing prenatal development to her friends, Michonne wants to identify the three main periods of prenatal development in order from conception to birth. Michonne uses the following order:  A) embryonic, germinal, and fetal  B) fetal, embryonic, and germinal  C) germinal, embryonic, and fetal  D) germinal, fetal, and embryonic
55.	Many obstetricians date the onset of pregnancy from the date of  A) conception  B) the woman's last menstrual period  C) implantation  D) when the woman had intercourse
56.	Within hours after conception, the 23 pairs of chromosomes within the zygote, forming two complete sets of the genome.  A) divide B) duplicate C) differentiate D) detach
57.	Cells that are able to produce any other cells are calledcells.  A) polymorphic B) foundation C) stem D) allele

58.	A high school science teacher asks her students to name the cells that can be used to produce any other cell in the body. If the students respond with cells, they will be correct.  A) polymorphic  B) foundation  C) stem  D) allele
59.	After about the eight-cell stage within the zygote, cells start to, meaning that they take different forms and reproduce at various rates depending on where they are located.  A) divide  B) duplicate  C) differentiate  D) detach
60.	Akiho loves to share information that she has learned from school with her parents. At dinner one day, she tells her family that she learned about cell differentiation in science class. Specifically, she tells them that once cells differentiate,  A) they can still transform into different cells  B) only cells in the brain can still transform into different cells  C) they can transform into stem cells  D) they can no longer transform into different cells
61.	During the germinal period of prenatal development, some cells become part of the brain, some become part of the leg, some become part of the stomach, and so on. The term for this process is  A) duplication  B) division  C) differentiation  D) specialization
62.	About percent of natural conceptions never implant.  A) 10  B) 25  C) 50  D) 75

63.	About a week after conception, the outer layer of the multiplying cells forms a protective circle, or shell, that will become the  A) placenta B) umbilical cord C) vernix D) infant
64.	The germinal period ends approximately after conception.  A) 2 days  B) 3 months  C) 2 weeks  D) 12 weeks
65.	Blake just learned that she is 6 weeks pregnant. Her developing baby is in the period of prenatal development.  A) germinal  B) embryonic  C) fetal  D) second
66.	At the onset of the embryonic period, the appear(s). It will eventually become the neural tube.  A) stem cells B) spinal cord C) primitive streak D) placenta
67.	As part of embryonic development, the neural tube will become the  A) reproductive organs  B) intestinal tract  C) backbone, legs, and arms  D) central nervous system, including the brain and spine
68.	In the week following conception, the head begins to take shape.  A) fourth B) fifth C) sixth D) seventh

69.		begins to pulsate.
		lungs
		stomach
	,	kidneys
		heart
	,	
70.		longest period of prenatal development is the period.
		embryonic
	B)	fetal
		zygotic
	D)	germinal
71.		third period of gestation is the period.
	A)	
		embryonic
		germinal
	D)	fetal
72	Dv. t	he end of the prenatal month, sex organs develop and are soon visible via a
12.	•	•
	A)	ogram. second
		third
	,	fourth
	D)	fifth
	D)	iiiui
73	Dur	ing the fetal period of development,
13.	A)	the brain goes through a process of regeneration
	B)	synapses in the brain decrease in number
	C)	the brain increases in size
	D)	the number of neurons in the brain decreases
	D)	the number of neurons in the orani decreases
74	Dur	ing mid-pregnancy, the brain increases about six times in size and develops many
/ т.		neurons in a process called
	A)	couvade
	B)	synaptogenesis
	C)	viability
	D)	neurogenesis
	_,	

/5.	A) might survive outside the uterus B) begins to move C) will be born without defects D) has reached the embryonic period
76.	Horace was born 26 weeks after conception. He now is a healthy, happy 2-year-old. Horace's ability to survive after being born so early was due in part to his reaching the  A) term of postnatal development B) germinal period C) neurogenesis point D) age of viability
77.	The critical factor in attaining the age of viability is  A) weighing at least 5 pounds (2.3 kg)  B) attaining advances in neurological functioning  C) having functioning digestive and respiratory systems  D) surviving at least 28 weeks past conception
78.	On average, fetuses gain about pounds during the last trimester of pregnancy, which brings the average birth weight to about 7.5 pounds.  A) 1.5 B) 2.5 C) 4.5 D) 6.5
79.	Abed's mom is four months pregnant. Abed is anxious for the new baby and asks, "How many more months until I'm a big brother?" His mother says he has to wait about more months.  A) 2 B) 3 C) 4 D) 5

80.	preparation (A) B) C)	round 38 weeks after conception, the starts the sequence of events that ares the fetus for delivery and starts labor.  fetal brain maternal brain placenta germinal period
81.	A) B) C)	average length of active labor in a first birth is several days about 12 hours about 8 hours a few minutes
82.	A) B) C)	do not breathe on their own until the umbilical cord is cut do not cry until the umbilical cord is cut breathe and cry on their own immediately breathe on their own, and cry when the umbilical cord is cut
83.	A) B) C)	e third stage of labor, the cervix begins to dilate baby's head moves into the birth canal mother experiences intense contractions placenta is delivered
84.	A) B) C)	birth process depends on all of the following EXCEPT customs of the culture position and size of the fetus the skill of the birth attendant parents' genetic heritage
85.	A) B) C)	Apgar scale is used at one minute and five minutes after birth to  evaluate the newborn's sensory abilities  evaluate the health of the new mother  help the mother recover from childbirth  evaluate the health of the newborn

86.	Abdul's score on the five-minute Apgar scale was 4. This means Abdul is  A) experiencing good health  B) a slow-to-warm-up infant  C) in need of emergency medical attention  D) in average health
87.	A surgical birth, in which incisions through the mother's abdomen and uterus allow the fetus to be removed quickly, is referred to as a(n)  A) epidural B) cesarean section C) induced labor D) doula
88.	Compared with vaginal births, c-section births  A) are less expensive  B) increase the risk of complications after birth  C) usually take longer  D) are less safe for the baby
89.	Epidurals, often used in hospital births to manage pain during childbirth, have been shown to  A) help prevent unnecessary c-sections B) encourage breast-feeding from the beginning C) decrease the newborn's readiness to suck D) induce labor
90.	Brittany was two weeks past her due date. The doctor decided it was best to labor because the fetus was growing too large.  A) postpone B) induce C) skip over D) decrease
91.	Labor that is started, speeded, or strengthened with a drug is referred to as  A) a home birth  B) induced labor  C) a cesarean section  D) an epidural

92.	<ul> <li>Which of the following is TRUE about rates of c-sections and epidurals?</li> <li>A) They have been relatively steady over the past three decades.</li> <li>B) They are the same in the United States as in most other developed nations.</li> <li>C) They vary by doctor, hospital, day of the week, and region.</li> <li>D) They are higher for births attended by midwives.</li> </ul>
93.	Most births in the United States take place in  A) birthing centers  B) hospital labor rooms  C) homes  D) pools of water
94.	An alternative to giving birth in a hospital is to arrange to give birth at home. In the United States, less than of births occur at home.  A) 1 percent  B) 5 percent  C) 10 percent  D) 15 percent
95.	A person who supports a mother through the birth process from early labor at home through delivery at home or in a hospital is called a  A) humanitarian  B) doctor  C) postpartum nurse  D) doula
96.	Amy went into labor at home. Joan arrived soon after and began to time her contractions and give gentle massages. She assisted Amy and her partner when it was time to leave for the hospital and accompanied them through the birth process. Joan was Amy's  A) postpartum nurse B) doctor C) couvade D) doula
97.	Research indicates that a doula-assisted birth can benefit  A) low-income women  B) immigrant women  C) unpartnered women  D) all women

98.	The is a test often administered to newborns that measures responsiveness an records 46 behaviors, including 20 reflexes.  A) gamete	d
	B) Brazelton Neonatal Behavioral Assessment Scale (NBAS)	
	C) fragile X	
	D) Apgar scale	
99.	Josephine just had a baby and now is experiencing a sense of inadequacy and sadnes	SS.
	She may have	
	A) couvade	
	B) behavioral teratogens C) kangaroo care	
	D) postpartum depression	
100	Studies indicate that may reduce maternal depression.	
100.	A) breast-feeding	
	B) having a home birth	
	C) couvade	
	D) epidurals	
101.	Lucia had a baby three weeks ago. She has been feeling sad and inadequate as a mot which has made caring for her newborn difficult. Lucia may be experiencing  A) fragile X syndrome B) postpartum depression C) Down syndrome D) couvade	
102.	Postpartum depression	
	A) is a normal development and no cause for concern	
	B) has no treatment C) does not typically interfere with the care of a newborn	
	D) can be reduced by successful breast-feeding	
103.	A father's presence at a child's birth	
,	A) has no impact on birth complications	
	B) only has an impact on birth complications if the mother and father are married	
	C) reduces the likelihood of birth complications	
	D) increases the likelihood of birth complications	

104.	The phenomenon in which fathers experience symptoms of pregnancy and birth is known as  A) postpartum depression  B) couvade  C) false labor  D) cerebral palsy
105.	When his wife was pregnant, Teague experienced weight gain and indigestion. When she gave birth, he felt sharp physical pain as well. Teague was experiencing  A) postpartum depression  B) couvade  C) false labor  D) the threshold effect
106.	In 22 of the 23 pairs of chromosomes, both members of the pair are closely matched.  Each of these 44 chromosomes is called a(n)  A) allele B) gamete C) autosome D) blastocyst
107.	Approximately once in every births, a newborn survives with 45, 47, or even 48 or 49 chromosomes instead of the usual 46.  A) 50 B) 200 C) 500 D) 1,000
108.	The most common extra-chromosome condition is  A) Down syndrome  B) nearsightedness  C) fragile X syndrome  D) Tourette syndrome
109.	Down syndrome is also called  A) trisomy-12 B) trisomy-13 C) trisomy-21 D) trisomy-31

110.	An individual with an extra chromosome on the 21st pair of chromosomes has  A) Down syndrome  B) nearsightedness  C) fragile X syndrome  D) Tourette syndrome
111.	One in every infants is born with only one sex chromosome or with three or more, which creates a chromosomal abnormality.  A) 50 B) 200 C) 500 D) 1,000
112.	Genes with various repeats or deletions of base pairs are referred to as  A) polymorphic  B) autosomes  C) polygenic  D) copy number variations
113.	A fatal central nervous system disorder caused by a copy number variation—more than 35 repetitions of a particular set of three base pairs—is  A) Down syndrome  B) nearsightedness  C) fragile X syndrome  D) Huntington disease
114.	The cognitive deficits caused by the genetic condition of are the most common form of inherited intellectual disability.  A) Down syndrome  B) nearsightedness  C) fragile X syndrome  D) Huntington disease
115.	A teratogen is any agent or condition that increases the risk for  A) prenatal abnormalities B) damage to the placenta C) extra chromosomes D) male infertility

116.	Ava is one month pregnant and consults with her doctor about the different categories of teratogens. The doctor tells her that all of the following are categories of teratogens EXCEPT  A) drugs B) pollutants C) the media D) viruses
117.	Agents and conditions that can harm the prenatal brain, impairing the future child's intellectual and emotional functioning, are called  A) chromosomal abnormalities  B) genetic mutations  C) cell differentiation  D) behavioral teratogens
118.	Hannah is 5 years old. She has been diagnosed with ADHD and shows signs of learning disabilities. Her doctor suggests that Hannah's problems could be the result of prenatal exposure to, though he stresses that the link is not straightforward at this time.  A) chromosomal abnormalities  B) genetic abnormalities  C) cell differentiation  D) behavioral teratogens
119.	During prenatal development, teratogens  A) increase the risk of prenatal abnormalities  B) decrease the risk of prenatal abnormalities  C) always cause prenatal abnormalities  D) do not cause prenatal abnormalities
120.	The first days and weeks after conception (the germinal and embryonic periods) are for body formation, but health during the entire fetal period affects the  A) sensitive; heart  B) critical; brain  C) sensitive; brain  D) critical; heart

121.	Chantal and Larry are considering having a baby. Chantal's doctor recommends that they stop using recreational drugs and update their immunizations  A) before Chantal gets pregnant  B) as soon as Chantal knows she is pregnant  C) anytime during the first trimester of pregnancy  D) as soon as the baby is born
122.	Gabby received high-quality prenatal care from the care team at her local hospital. She was informed about what to eat and what to do. They also coached her on what to, such as cigarette smoking and very high stress.  A) avoid B) seek out C) experience D) continue
123.	Some teratogens have a threshold effect, which means that they are  A) harmful no matter what the level of exposure  B) rarely harmful  C) harmless until exposure reaches a certain level  D) always harmless
124.	Skye is pregnant yet she still has four alcoholic drinks each day. Her baby may be at increased risk for the development of  A) fetal alcohol syndrome B) fetal anoxia syndrome C) fetal alcohol situation D) functional alcohol syndrome
125.	Low folic acid during pregnancy can result in  A) heart defects  B) lung defects  C) limb deformities  D) neural-tube defects

126.	Alice is pregnant and wants to ensure that she does everything she can to prevent the occurrence of a neural-tube defect in her child. She makes sure that she has the proper amount of in her diet.  A) vitamin D  B) zinc  C) folic acid  D) vitamin K
127.	A woman carrying dizygotic twins drinks alcohol. The twins' blood alcohol levels are equal, yet one twin may be more severely affected than the other because their alleles for the enzyme that metabolizes alcohol differ. This is evidence that the influence the effects of teratogens.  A) kinds of substances B) genes of the parent C) genes of the embryo/fetus D) doses of teratogen
128.	Sammy is 5 years old and spends his day in a wheelchair, assisted by an aid. Sammy can't control any of his muscles due to brain damage, but he is extremely intelligent. Sammy's condition has been evident since birth. Sammy has  A) anoxia  B) cerebral palsy  C) Huntington disease  D) Parkinson's disease
129.	Anoxia refers to  A) cerebral hemorrhaging  B) signs of cerebral palsy  C) a lack of oxygen  D) toxic substances in the bloodstream
130.	Cerebral palsy was once thought to be the result of something that happened during the birth procedure, but we now know it can result from each of the following EXCEPT  A) genetic sensitivity B) teratogens C) maternal infection D) Huntington disease

131.	When Alexia was born, she suffered a lack of oxygen for a small amount of time. Alexis experienced  A) cerebral hemorrhaging  B) cerebral palsy  C) couvade  D) anoxia	ia
132.	With respect to test results, a false positive is the result of a laboratory test that reports something as  A) true when in fact it is not true  B) false when in fact it is not false  C) true when in fact it is true  D) false when in fact it is false	
133.	Babies born under 1,000 grams (2 pounds 3 ounces) are considered  A) low birthweight  B) very low birthweight  C) extremely low birthweight  U) ultra low birthweight	
134.	Babies born slightly under 1,500 grams (3 pounds 5 ounces) are considered  A) low birthweight  B) very low birthweight  C) extremely low birthweight  U) ultra low birthweight	
135.	Babies born slightly under 2,500 grams are considered  A) low birthweight  B) very low birthweight  C) extremely low birthweight  Ultra low birthweight	
136.	A baby born three or more weeks early is called  A) premature B) preterm C) low birthweight D) small for gestational age	

137.	A baby whose birthweight is significantly lower than expected given the time since conception is referred to as  A) preterm  B) premature  C) low birthweight  D) small for gestational age
138.	Bruno and Juliana moved to the United States from Mexico two years ago and just had their first baby. Although Bruno and Juliana's SES is lower than their native-born peers their baby was born at a healthy weight, in part because of the support of their social network. This phenomenon is called the  A) immigrant paradox B) heritability paradox C) native-born paradox D) SES paradox
139.	Cigarette smoking is implicated in percent of all low-birthweight births worldwide.  A) 10 B) 15 C) 20 D) 25
140.	Statistically, which woman is MOST apt to have a baby with low birthweight?  A) Ashley, who is 27 years old and middle-class SES  B) Jody, who has been diagnosed with diabetes  C) Kate, who regularly misses meals  D) Delfina, who is a Hispanic immigrant
141.	Adults who were low-birthweight babies have higher rates of  A) diabetes  B) malnutrition  C) normal-range weight  D) obesity
142.	Research indicates that alcohol use disorder is caused by  A) nature only B) nurture only C) a combination of nature and nurture D) poor moral character

143.	An individual's inherited biochemistry reacts to alcohol in different ways, causing various reactions in humans. These include all of the following EXCEPT  A) sleep B) nausea C) hunger D) relaxation
144.	<ul> <li>Which of the following statements is true about alcohol use disorder?</li> <li>A) Alcohol use disorder is polygenic and culture is a pivotal factor.</li> <li>B) Alcohol use disorder is polygenic and genes are a pivotal factor.</li> <li>C) Alcohol use disorder is X-linked and culture is a pivotal factor.</li> <li>D) Alcohol use disorder is X-linked and genes are a pivotal factor.</li> </ul>
145.	For biological reasons, such as metabolism, women become drunk on than men.  A) more alcohol  B) less alcohol  C) the same amount of alcohol  D) more alcohol in the summer and less alcohol in the winter
146.	All of the following affect vision EXCEPT  A) genes B) age C) culture D) gender
147.	Eyeballs change shape at typical stages of development, including puberty and middle adulthood. This makes it more likely that will increase at puberty and wil decrease during middle adulthood.  A) nearsightedness; farsightedness  B) farsightedness; nearsightedness  C) nearsightedness; nearsightedness  D) farsightedness; farsightedness
148.	is the statistic that indicates how much of the variation in a particular trait in a particular population and in a particular context can be traced to genes.  A) A correlation  B) Heritability  C) The mean  D) Probability

- 149. The heritability for human traits, such as nearsightedness, \_\_\_\_\_.A) is the same in every cultureB) can differ between cultures
  - C) is not influenced by cultural factors
  - D) will always be different between cultures
- 150. Eight-year-old Joe has no difficulty seeing things near him but sometimes struggles to see things in the distance. When Joe has his eyes checked, he is told that he does not yet need corrective lenses for nearsightedness. Instead, drawing on current research, the ophthalmologist suggests that he should first try to \_\_\_\_\_.
  - A) do homework in a very brightly lit room
  - B) watch television on a larger screen
  - C) play outside more
  - D) avoid reading small print

## **Answer Key**

- 1. D
- 2. B
- 3. A
- 4. A
- 5. A
- 6. B
- 7. B
- 8. A
- 9. D
- 10. A
- 11. B
- 12. B
- 13. C
- 14. C
- 15. C
- 16. A
- 17. A
- 18. C
- 19. C
- 20. C
- 21. B
- 22. C 23. A
- 24. A
- 25. C
- 26. B
- 27. B
- 28. B
- 29. C
- 30. A
- 31. A
- 32. B
- 33. A
- 34. B
- 35. B
- 36. C
- 37. D
- 38. D
- 39. A 40. B
- 41. C
- 42. A
- 43. C
- 44. C

- 45. C
- 46. A
- 47. A
- 48. B
- 49. A
- 50. C
- 51. A
- 52. C
- 53. D
- 54. C
- 55. B 56. B
- 57. C
- 58. C
- 59. C
- 60. D
- 61. C
- 62. C
- 63. A
- 64. C
- 65. B
- 66. C
- 67. D
- 68. A
- 69. D
- 70. B
- 71. D
- 72. B
- 73. C
- 74. D
- 75. A
- 76. D
- 77. B
- 78. C
- 79. D
- 80. A
- 81. B
- 82. C
- 83. D
- 84. D
- 85. D 86. C
- 87. B
- 88. B
- 89. C
- 90. B

- 91. B
- 92. C
- 93. B
- 94. A
- 95. D
- 96. D
- 97. D
- 98. B
- 99. D
- 100. A
- 101. B
- 102. D
- 103. C
- 104. B
- 104. B
- 106. C
- 107. B
- 108. A
- 109. C
- 110. A
- 111. C
- 112. D
- 113. D
- 114. C
- 115. A
- 116. C
- 117. D
- 118. D
- 119. A
- 120. B
- 121. A
- 122. A
- 123. C
- 124. A
- 12 · · · · ·
- 125. D 126. C
- 127. C
- 127. C
- 129. C
- 130. D
- 131. D
- 131. *D*
- 133. C
- 134. B
- 135. A
- 136. B

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- 137. D
- 138. A
- 139. D
- 140. C
- 141. A
- 142. C
- 143. C
- 144. C
- 145. B
- 146. D
- 147. C
- 148. B
- 149. B
- 150. C