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CHAPTER 2: The Biology of Development

MULTIPLE CHOICE

| 1. | refers to a phenomenon in which the fetus is sometimes able to slow down the rate of growth when it senses environmental stresses and drops in nutrition. a. Conservation hypothesis c. Sparing nutrient hypothesis b. Parsimonious genotype hypothesis d. Thrifty phenotype hypothesis |
|----|---|
| | ANS:DDIF:MediumREF:Introductory MaterialTOP:Learning Objective 1MSC:Understanding |
| 2. | All of the following act as teratogens EXCEPT: a. environmental toxins c. maternal exercise b. infectious diseases d. prescription drugs ANS: C DIF: Medium REF: Adverse Influences on the Developing Embryo and Fetus TOP: Learning Objective 1 MSC: Understanding |
| 3. | Researchers fed male mice either a normal diet or a low-protein diet. Mice on either diet were then mated with females raised on a normal diet. What should the researchers expect to find about the resulting offspring? a. Offspring of males fed the normal diet will demonstrate a marked increase in activation of genes involved in cholesterol synthesis. b. Offspring of males fed the low protein diet will not demonstrate a marked increase in activation of genes involved in cholesterol synthesis because their mothers were fed normal diets. c. Offspring of males fed the low protein diet will demonstrate a marked increase in activation levels of genes involved in cholesterol synthesis as a result of paternal diet. d. The offspring's diet alone, and not parental diet, influences activation levels of genes involved in cholesterol synthesis. |
| | ANS: CDIF:DifficultREF:Constraints on DevelopmentTOP:Learning Objective 1MSC:Understanding |
| 4. | Brush turkeys are born on the ground and need to fend for themselves soon after birth, whereas songbirds are born in nests and trees and are protected. These different local environments are referred to as: a. biological addresses c. environmental niches b. differential nests d. localized adaptations |
| | ANS: CDIF: EasyREF: Inputs to the Biological SystemTOP: Learning Objective 1MSC: Applying |
| 5. | Matilda was born in 1960. Her mother took the drug thalidomide while pregnant, which adversely affected Matilda's limb growth. Thalidomide is an example of a(n): a. homeobox c. teratogen b. illegal drug d. trigger substance |

ANS:CDIF:EasyREF:Adverse Influences on the Developing Embryo and FetusTOP:Learning Objective 1MSC:MSC:Applying

| 6. | | nown to affect the heart of the developing organism. |
|-----|---|--|
| | The effects will likely be most severe if the exposu | - |
| | | fetal period |
| | b. embryonic period d. | third trimester |
| | ANS: B DIF: Medium | |
| | REF: Adverse Influences on the Developing Emb | bryo and Fetus |
| | TOP: Learning Objective 1 MSC: | Applying |
| | | |
| 7. | | |
| | representation of the fingers of the left hand. This | |
| | | learned plasticity |
| | b. experience-dependent plasticity d. | musical plasticity |
| | ANS: B DIF: Medium REF: | Experience and Brain Development |
| | TOP: Learning Objective 1 MSC: | Applying |
| | | |
| 8. | 6 6 | |
| | alcohol syndrome. All of the following are associa | |
| | | thin upper lip |
| | b. missing ridges under the nose d. | widely spaced eyes |
| | ANS: A DIF: Difficult | |
| | REF: Adverse Influences on the Developing Emb | pryo and Fetus |
| | TOP: Learning Objective 1 MSC: | Applying |
| 0 | | |
| 9. | 2. Lucian grew up in a Romanian orphanage under co | |
| | statements are true of extremely deprived children children EXCEPT: | such as Lucien compared to typically developing |
| | | reduced pruning |
| | | reduced physiological activity |
| | • | |
| | | Experience and Brain Development |
| | TOP:Learning Objective 1MSC: | Applying |
| 10 |). What does a heritability of .9 for height mean? | |
| 10. | a. Ninety percent of a specific person's height is | caused by her genes. |
| | b. Ninety percent of a specific person's height is | |
| | c. Ninety percent of a specific person's height is | |
| | environment. | |
| | d. The differences in height across the whole pop | |
| | variations between that population's members | |
| | ANS: D DIF: Difficult REF: | Heritability TOP: Learning Objective 1 |
| | MSC: Applying | |
| | | |
| 11. | . Which of the following is not one of the chemical | bases of DNA? |
| | | meyline |
| | b. guanine d. | thymine |
| | ANS: C DIF: Easy REF: | Inputs to the Biological System |
| | 5 | Remembering |
| | | - |
| 12. | 2. Molecular biologists refer to the sequence of bases | |
| | sequence directs the assembly of particu | - |
| | a functional c | regulatory |

a. functional c. regulatory

| | b. amino acid | d. | structural |
|-----|---|------------------------|--|
| | ANS: D DIF: Easy TOP: Learning Objective 2 | | Inputs to the Biological System Remembering |
| 13. | compact: | s are sto | ored in the cell nucleus as tightly wound, highly |
| | a. allelesb. chromosomes | | genes Iysosomes |
| | ANS: B DIF: Easy TOP: Learning Objective 2 | | Inputs to the Biological System Understanding |
| 14. | off | producin regulation | ng whether other genes will be turned on or |
| | c. the genetic material of animals may diff.d. a gene is made up of a section of DNA | fer in fu | indamental structure |
| | ANS: C DIF: Medium TOP: Learning Objective 2 | | Inputs to the Biological System Understanding |
| 15. | Which is a possible base pair?a. adenine and cytosineb. adenine and thymine | c. d. | thymine and cytosine thymine and guanine |
| | ANS: B DIF: Medium TOP: Learning Objective 2 | | Inputs to the Biological System Understanding |
| 16. | refers to the ways that the genetic including its anatomical structures and beha a. Autosomy b. Genotype | viors. | nation is expressed or manifested in an organism, Phenotype Zygosity |
| | ANS: C DIF: Easy TOP: Learning Objective 3 | | Inputs to the Biological System Remembering |
| 17. | many species. | | and off genes that affect the general body plan in |
| | a. Activator genesb. Homeobox genes | с. d. | Homologs Suppressor genes |
| | ANS: B DIF: Easy TOP: Learning Objective 3 | | Diversity out of Uniformity Remembering |
| 18. | Which of the following statements is true?a. A particular allele's unique characteristb. Differences never arise between the gerc. Genotype is the sole determinant of phed. Genes have the same effects regardless | notype o enotype | of an organism and its phenotype. |
| | ANS: A DIF: Difficult TOP: Learning Objective 3 | | Inputs to the Biological System Understanding |

19. The picture below illustrates:



| | a. chain reactionsb. genetic ripples | | a landscape of canalization regulatory cascades |
|-----|--|-----------|---|
| | | | |
| | ANS: D DIF: Easy TOP: Learning Objective 3 | | Inputs to the Biological System Applying |
| 20. | Several genes influence human skin color. | This is a | an example of: |
| | a. heterozygous inheritance | | pleiotropic inheritance |
| | b. homeobox inheritance | d. | polygenic inheritance |
| | ANS: D DIF: Easy TOP: Learning Objective 3 | | Behavioral Genomics Applying |
| 21. | Jerome receives the allele for facial dimples. | s from b | both his mother and father. Jerome is said to be |
| | a. codominant | с. | heterozygous |
| | b. dizygotic | d. | homozygous |
| | ANS: D DIF: Medium | REF: | Inputs to the Biological System |
| | TOP: Learning Objective 3 | MSC: | Applying |
| 22. | Lucinda inherits one allele for type A blood blood because the allele for type A is: | l and on | e allele for type O blood. She would have type A |
| | a. codominant | | heterozygous |
| | b. dominant | d. | recessive |
| | ANS:BDIF:MediumTOP:Learning Objective 3 | | Inputs to the Biological System Applying |
| 23. | Stanley inherits one allele for normally pig | mented | skin and one allele for albinism. Stanley would not |
| | display albinism because the allele for albir | | |
| | a. codominantb. dominant | с. d. | recessive submissive |
| | | | |
| | ANS: C DIF: Medium TOP: Learning Objective 3 | | Inputs to the Biological System Applying |
| 24 | Ebrendiera inherits one allele for type A blo | ood and | one allele for type B blood. She has type AB blood. |
| 21. | This is an example of: | ood and | one unere for type D brood. She has type The brood. |
| | a. codominance | | joint alleles |
| | b. heterozygosity | d. | polygenic inheritance |
| | ANS: A DIF: Medium TOP: Learning Objective 3 | | Inputs to the Biological System Applying |
| 25. | Phenylketonuria is a genetic disorder, whic numerous effects of this disorder including That one gene affects many traits is an exar | mental | retardation, eczema, and pigment abnormalities. |
| | a. heterozygous genes | с. | pleiotropic genes |
| | b. homeobox genes | d. | polygenic genes |
| | ANS: C DIF: Medium | REF: | Behavioral Genomics |

| | TOP: Learning Objective 3 | MSC: Applying |
|-----|---|--|
| 26. | committed to becoming certain types. | rgoing a process of through which they get |
| | a. canalizationb. commitment | c. methylationd. myelination |
| | ANS: A DIF: Easy TOP: Learning Objective 4 | REF: Constraints on Development MSC: Remembering |
| 27. | lead(s) to changes in gene expressa. Epigenetic regulationb. Feedback loops | ssion without changes to DNA sequences.c. Genetic parameterizationd. Regulatory cascades |
| | ANS: A DIF: Easy TOP: Learning Objective 4 | REF: Constraints on Development MSC: Remembering |
| 28. | | |
| | a. Chronometric genesb. Heterochronic genes | c. Horological genesd. Temporal genes |
| | ANS: B DIF: Easy TOP: Learning Objective 4 | REF: Constraints on Development MSC: Remembering |
| 29. | a. the differentiation of cell types and anatb. the integration of cell types and anatomc. the continuous need for viability of the | nical structures |
| | ANS: B DIF: Easy TOP: Learning Objective 4 | REF: Constraints on Development MSC: Understanding |
| 30. | refers to the unique process of ce a. DNA replication b. Gametization | ell division that produces the egg and sperm cells. c. Meiosis d. Mitosis |
| | ANS: C DIF: Easy TOP: Learning Objective 5 | REF: Meiosis and Fertilization MSC: Remembering |
| 31. | Demetrius has an extra X chromosome. His a. Klinefelter syndrome b. monosomy X | s condition is referred to as: c. Turner syndrome d. XYY syndrome |
| | ANS: A DIF: Medium TOP: Learning Objective 5 | REF: Meiosis and Fertilization MSC: Remembering |
| 32. | Which of the following statements is FALSa. Sperm cells are also known as gametes.b. Sperm cells are produced by mitosis.c. Sperm cells have only one of each typed. Sperm cells provide half of the genetic statement. | e of chromosome. |
| | ANS: B DIF: Medium TOP: Learning Objective 5 | REF: Meiosis and Fertilization MSC: Understanding |

| 33. | A researcher is examining skin cells. These cells.a. crossing-overb. gastrulation | c. | ere created through the process of: meiosis mitosis |
|-----|---|--------------------|---|
| | | | Meiosis and Fertilization Applying |
| 34. | Down syndrome is most likely the result of wh a. monosomy 13 b. monosomy 21 | с. | genetic condition? trisomy 21 X linked inheritance |
| | | | Meiosis and Fertilization Applying |
| 35. | Alicia has Turner syndrome. Which of the foll exhibit? | owin | g traits/conditions would Alicia be UNLIKELY to |
| | a. infertilityb. missing female sex characteristics | | tall stature drooping eyelids |
| | | | Meiosis and Fertilization Applying |
| 36. | Immediately following conception, the fertilize a. blastocyst b. embryo | c. | g is known as the: gamete zygote |
| | | | Meiosis and Fertilization Remembering |
| 37. | The period of the embryo begins at about a. 30 hours b. 9 weeks | c. | _ after conception. 2 weeks 3 months |
| | | | Structures and Systems in the Embryo and Fetus Remembering |
| 38. | During which period of prenatal development a. the period of the zygote b. the period of the embryo | | the heart begin to beat? the second trimester the third trimester |
| | | | Structures and Systems in the Embryo and Fetus Remembering |
| 39. | When during prenatal development does a prina. at conceptionb. around 2 weeks | nitive c. d. | e brain appear? around 4 weeks around 9 weeks |
| | ÷ | | Structures and Systems in the Embryo and Fetus Remembering |
| 40. | From the ninth week until birth, the growing h a. embryo b. fetus | umar c. d. | n organism is referred to as a(n): neonate zygote |
| | ANS: B DIF: Easy R | EF: | Structures and Systems in the Embryo and Fetus |

a. nervous system

44.

45.

41. The blastocyst's middle cell layer, the mesoderm, will eventually form all of the following EXCEPT the: c. internal organs

| | | | | ••• | internal organis |
|---|---------------------|--------|--------|------|---------------------------------------|
| 1 | o. skeleton | | | d. | muscles |
| | | | Medium | | The First Patterns of Differentiation |
| | ΓΟΡ: Learning Objec | tive 6 | | MSC: | Remembering |

- 42. Which of the following is FALSE regarding risk factors for preterm births?
 - a. Several forms of physical stress can increase the likelihood of a preterm birth.
 - b. Several forms of psychological stress can increase the likelihood of a preterm birth.
 - c. Only infections close to the uterus, and not infections far removed from the uterus (for example, dental infections) can increase the likelihood of a preterm birth.
 - d. Smoking during pregnancy can increase the likelihood of a preterm birth.

| ANS: | С | DIF: | Medium | REF: | Preterm Births |
|------|---------------|----------|--------|------|----------------|
| TOP: | Learning Obje | ective 6 | i i | MSC: | Understanding |

- 43. Which of the following is FALSE regarding premature infants?
 - a. Preterm birth is associated with a greater risk of a number of irregularities in brain development.
 - b. Preterm birth is associated with a range of cognitive difficulties.
 - c. The more immature the preterm infant is at birth, the higher the risk of medical problems just in infancy but not in childhood and beyond.
 - d. Even with advances in medical technologies, preterm birth is still a cause of concern for parents, physicians, and psychologists.

| ANS: C | DIF: | Difficult | REF: | Preterm Births |
|---------------------------------|-----------|------------------|-----------|---|
| TOP: Learning Ob | jective 6 | | MSC: | Understanding |
| Some unspecialized development. | cells dev | velop into brain | n cells b | efore birth. This is an example of |
| a. antenatal | | | c. | prenatal |
| b. natal | | | d. | postnatal |
| ANS: C | DIF: | Easy | REF: | Introductory Material |
| TOP: Learning Ob | jective 6 | - | MSC: | Applying |
| Allen and Harold an twins. | e twins v | vith nearly ider | ntical ge | motypes. These brothers can be described as |
| a. conjoined | | | с. | dizygotic |

| b. monozygotic | | | fraternal |
|-------------------|-----------|--------|---------------------------|
| ANS: B | DIF: Easy | REF: M | Meiosis and Fertilization |
| TOP: Learning Obj | ective 6 | MSC: A | Applying |

- 46. Having a right and left kidney, right and left ear, and right and left arm are all examples of: a. unilateral symmetry c. unilateral proportionality b. bilateral symmetry d. bilateral proportionality **REF:** The First Patterns of Differentiation ANS: B DIF: Medium TOP: Learning Objective 6 MSC: Applying
- 47. As an infant, Macie develops arm control before leg control. This is an example of:

| | a. antedistal developmentb. bilateral development | | cephalocaudal development proximodistal development |
|-----|--|---------------------------|---|
| | - | | |
| | | | Structures and Systems in the Embryo and Fetus Applying |
| 48. | | can beo is illus c. | |
| | | | Structures and Systems in the Embryo and Fetus Applying |
| 49. | In the human embryo, structures vaguely resemuscles, middle ear bones, and other structurea. a. ontogeny recapitulates phylogeny b. phylogeny recapitulates ontogeny c. cephalocaudal development recapitulates d. proximodistal development recapitulates | res. Th s proxi | modistal development |
| | ANS: ADIF: MediumREF: Why Does Anatomical DevelopmentTOP: Learning Objective 6 | | ess As It Does? Applying |
| 50. | The cerebrum includes all of the following Ea. basal gangliab. cerebral cortex | c. | T: cerebellum olfactory bulb |
| | | | Major Changes to Brain Structures Remembering |
| 51. | Which lobe of the brain is involved in proces visual and spatial information? | ssing a | nd interpreting touch sensations and integrating |
| | a. frontal lobeb. occipital lobe | | parietal lobe temporal lobe |
| | | | Major Changes to Brain Structures Remembering |
| 52. | are the gaps between the axon term a. Glial gaps b. Growth cones | c. | of one neuron and the dendrites of another. Nodes of Ranvier Synapses |
| | 5 | | Neurons and Neurotransmitters Remembering |
| 53. | is a fatty substance that coats the a a. Axtol b. Glial | c. | nd speeds message transfer. Myelin Neural tubing |
| | 5 | | Neurons and Neurotransmitters Remembering |

54. Heavily myelinated bundles of axons in the brain are called:

| | a. glial cellsb. black matter | c. d. | gray matter white matter |
|-----|---|-----------------------------------|--|
| | ANS: D DIF: Easy TOP: Learning Objective 7 | | Development of Neurons Remembering |
| 55. | The brainstem is concerned with all of thea. breathingb. coordination of voluntary movement | | ng EXCEPT: heart rate swallowing |
| | ANS: B DIF: Medium TOP: Learning Objective 7 | | Major Changes to Brain Structures Remembering |
| 56. | | | tic brain injury. This injury has affected his of emotion. Which region of the brain is most likely |
| | a. frontal lobeb. occipital lobe | с. d. | parietal lobe temporal lobe |
| | ANS: A DIF: Medium TOP: Learning Objective 7 | | Major Changes to Brain Structures Remembering |
| 57. | Which brain structure is likely to be the lasa. basal gangliab. medulla | | prefrontal cortex |
| | ANS: C DIF: Medium TOP: Learning Objective 7 | | Brain Development Understanding |
| 58. | Which of the following statements is FALS a. Neurons send messages to one another b. Communication between neurons occur c. There are several types of neurotransmin particular types. d. Chemical signals can cause the received called an action potential. | by releaurs at syn bitters, an | asing neurotransmitters from the dendrites. hapses. nd each neuron's receptors respond to |
| | ANS: A DIF: Medium TOP: Learning Objective 7 | | Neurons and Neurotransmitters Understanding |
| 59. | Neural structures can be pruned through pr a. apoptosis b. myelination | с. | ned cell death, or: synaptogenesis synaptic pruning |
| | ANS: A DIF: Easy TOP: Learning Objective 8 | | Development of Neurons Remembering |
| 60. | All of the following are main processes inva. action potentiationb. consolidation | с. | n the development of neurons EXCEPT: migration myelination |
| | ANS: A DIF: Easy TOP: Learning Objective 8 | | Development of Neurons Understanding |
| 61. | Which of the following statements is true of | of neuro | genesis? |

a. Neurogenesis only occurs prenatally.

- b. Neurogenesis only occurs postnatally.
- c. The same numbers of neurons are produced before and after birth.
- d. Fewer neurons are produced after birth than during the prenatal period.

| ANS: | D | DIF: | Medium | REF: | Development of Neurons |
|------|---------------|----------|--------|------|------------------------|
| TOP: | Learning Obje | ective 8 | | MSC: | Understanding |

- 62. Which of the following statements is FALSE regarding synaptic pruning?
 - a. Synaptic pruning only follows apoptosis.
 - b. Synaptic pruning seems to extend into adolescence and early adulthood.
 - c. Genetic factors influence the process of synaptic pruning.
 - d. Environmental factors influence the process of synaptic pruning.

| ANS: | A DIF | : Difficult | REF: | Development of Neurons |
|------|--------------------|-------------|------|------------------------|
| TOP: | Learning Objective | 8 | MSC: | Understanding |

63. Which is the most plausible explanation for the increase in risk taking during adolescence?

- a. There is a lack of successful campaigns about drug abuse and sexual risk taking.
- b. There is a 40 percent drop in the total number of synapses in the frontal lobes from late childhood to adulthood.
- c. Gray matter volume decreases in areas associated with sensory and motor functions.
- d. There is increased sensitivity to reward cues from the striatum, which overrides control circuits from the prefrontal cortex.

| ANS: | D I | DIF: D | Difficult | REF: | Puberty and Brain Development |
|------|-----------------|--------|-----------|------|-------------------------------|
| TOP: | Learning Object | tive 8 | | MSC: | Understanding |

64. Madison is 11 years old. In the coming years, which part of her brain will experience dramatic changes?

| a. frontal lobeb. occipital lobe | | parietal lobe temporal lobe |
|---|-----------|--------------------------------|
| ANS: A | DIF: Easy | Puberty and Brain Development |
| TOP: Learning Obj | ective 8 | Applying |

SHORT ANSWER

1. Nancy is pregnant with her first child. What factors in Nancy's daily life and environment will influence her baby's prenatal environment?

ANS:

Immediately after conception, the fertilized egg is bathed in a rich mixture of chemicals, including hormones secreted by the mother. Soon, additional hormones are produced by the developing fetus. The prenatal environment is also influenced by the mother's external environment, as it includes substances that the mother has ingested and passed on to the developing fetus. Some of these substances, such as food, are intentionally consumed, but others, such as air pollution, have entered the mother's body without her knowledge. Toward the end of the fetal period, the growing organism is affected by additional environmental factors such as sounds in the outside world as well as tactile sensations created when the mother's stomach is touched.

DIF: Easy REF: Inputs to the Biological System TOP: Learning Objective 1 MSC: Understanding

2. Describe the concept of environmental niche and provide an example.

ANS:

Environmental niches refer to an organism's physical environment, which may differ in the availability of food and other resources. Animals have evolved special adaptations to thrive in their environments. For example, the brush turkey is completely self-sufficient after birth because this species is born on the ground and must immediately find its own food.

DIF: Easy REF: Inputs to the Biological System TOP: Learning Objective 1 MSC: Applying

3. Define experience-dependent plasticity and provide an example of this concept.

ANS:

Experience-dependent plasticity refers to the ability of the brain to be malleable and physically change as the result of experience. For example, when people learn to juggle, there is an increase in gray matter in the brain region associated with the visual processing of motion.

DIF: Easy REF: Experience and Brain Development TOP: Learning Objective 1 MSC: Applying

4. Differentiate between genotype and phenotype.

ANS:

Genotype is the genetic information encoded as particular alleles in an organism's DNA. Phenotype refers to the ways that the genetic information is expressed or manifested in an organism, including its anatomical structures, its biochemical processes, and its behaviors. Phenotype depends in part on genotype but is also affected by environmental influences.

DIF: Medium REF: Inputs to the Biological System TOP: Learning Objective 1 MSC: Analyzing

5. Describe the structure of DNA.

ANS:

DNA is a long, double-stranded molecule consisting of specific sequences of four different chemical bases (adenine, thymine, guanine, and cytosine). The molecular structure of these four chemicals allows them to link up as base pairs (adenine with thymine and cytosine with guanine) to attach the two strands of the DNA molecule together in a twisting structure called a double helix.

DIF: Medium REF: Inputs to the Biological System TOP: Learning Objective 2 MSC: Understanding

6. Describe dominant-recessive inheritance and provide an example.

ANS:

If individuals are heterozygous, they receive two different alleles of a particular gene. The allele that influences the organism's characteristics is referred to as dominant, and the second allele that has no effect is referred to as recessive. For example, if a child inherits one allele for type A blood and one allele for type O blood, she will have type A blood because the allele for type A is dominant.

DIF: Medium REF: Inputs to the Biological System TOP: Learning Objective 3 MSC: Applying

7. Differentiate between pleiotropic and polygenic genes.

ANS:

A pleiotropic gene affects many traits. The opposite of pleiotropy (one gene affecting many traits) is when a single trait is polygenic, or affected by multiple genes.

DIF: MediumREF: Behavioral GenomicsTOP: Learning Objective 3MSC: Analyzing

8. Explain the landscape of canalization.

ANS:

Waddington depicted the process of specialization during development using the visual representation of a landscape. He described changing cells undergoing a process of canalization through which they get committed to becoming certain types. He likened the differentiating cell to a ball rolling down a landscape with ever-deepening valleys and ridges, which represent different cell outcomes. As the valleys deepen and the ridges grow higher, the likelihood of the ball "jumping" to another valley decreases. Likewise, after a cell begins a particular developmental path, it will be increasingly difficult for it to change course and become a completely different cell type.

DIF: Difficult REF: Constraints on Development TOP: Learning Objective 4 MSC: Understanding

9. Differentiate between meiosis and mitosis.

ANS:

Meiosis is a special kind of cell division that produces the egg and sperm cells. Normal human cells have 23 pairs of chromosomes. One chromosome of each parent goes to the sperm and egg cells. Mitosis gives rise to other kinds of cells throughout the body. The chromosomes from both parents are copied and appear in all the new cells during mitosis.

DIF: Medium REF: Meiosis and Fertilization TOP: Learning Objective 5 MSC: Analyzing

10. Naomi is considering participating as a client in the Nurse-Family Partnership Program. Describe the program for her, noting possible advantages.

ANS:

The Nurse-Family Partnership Program is a program in which nurses visit disadvantaged pregnant women to advise them during their pregnancy and then after the birth of their child. Program participants have fewer medical complications during pregnancy and are less likely to have premature babies. Program participants also interact with their babies in more positive ways.

DIF: Medium REF: Visiting Nurses, Prenatal Care, and Child Development TOP: Learning Objective 6 MSC: Remembering

11. Outline the hallmarks of the embryonic period.

ANS:

At about 2 weeks after conception, the fertilized egg attaches to the uterine wall. After this implantation, we refer to the fertilized egg as the embryo. The embryonic period lasts until the end of the eighth week after conception. During the embryonic period, the heart starts to beat and limb buds appear. There is some neural activity, and the first elements of most body parts (for example, ears, fingers, and toes) are present.

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DIF:MediumREF:Structures and Systems in the Embryo and FetusTOP:Learning Objective 6MSC:Understanding

12. List the major risk factors for preterm birth.

ANS:

Several forms of physical and psychological stress can increase the likelihood of a preterm birth. Risk factors include: infections in either the mother or fetus, maternal substance use (for example, smoking, alcohol, and illegal drugs), and maternal stress.

DIF: Medium REF: Preterm Births TOP: Learning Objective 6 MSC: Understanding

13. What does the phrase "ontogeny recapitulates phylogeny" mean?

ANS:

Ontogeny refers to the development of an organism and phylogeny refers to evolutionary lineage. According to this hypothesis, the development of an embryo follows the same course as the species' evolutionary history.

DIF:MediumREF:Why Does Anatomical Development Progress As It Does?TOP:Learning Objective 6MSC:Understanding

14. How do the frontal lobes change during the teenage years?

ANS:

The frontal lobes undergo significant pruning of synaptic connections during adolescence. This decrease in the number of synapses is thought to streamline the region's neural circuits to support faster and more efficient performance. At the same time, the amount of white matter in the frontal lobes substantially increases. The section of the frontal lobes called the prefrontal cortex matures the latest with growth into the 20s.

DIF: Medium REF: Puberty and Brain Development TOP: Learning Objective 6 MSC: Understanding

15. Describe the structure of a neuron.

ANS:

The neuron consists of a cell body with a nucleus, dendrites, an axon, and axon terminals. The dendrites have receptors that receive chemical signals from other neurons. The axon is a tubelike projection that conducts electrical impulses away from the cell body. The axon terminal is the end of the axon, which releases neurotransmitters into the synapse.

DIF: Easy REF: Neurons and Neurotransmitters TOP: Learning Objective 7 MSC: Understanding