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ALWAYS LEARNING

Chapter 2: Foundations of development: Genetics and prenatal development

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) What genetic disorder is the single most important cause of mental retardation?	1)
A) Autism spectrum disorder B) Fragile-X syndrome C) Down syndrome D) Prader-Willi syndrome Answer: C A-Head: Genetic foundations	
Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnorattributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1	ormai numan
2) Which of the following was not an early idea of Mendel (1865)?	2)
A) individuals inherit traits via 'factors' B) sex-linked genes lead to particular traits skipping generations C) individuals had pairs of genes (one from each parent) D) the notion of dominant and recessive genes Answer: B	
A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal	ormal human
attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3	
3) In humans, the normal complement of chromosomes is:	3)
A) 23 pairs of chromosomes B) 22 pairs of autosomes and one pair of sex chromosomes C) 46 pairs of chromosomes D) both A and B are correct Answer: D A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnotattributes Graduate Attribute: 1 Core knowledge and understanding	ormal human
Diff: 3	
4) Mitosis is the process by which each cell is duplicated so that a second cell is identical in to the original. The four phases of mitosis are: anaphase, prophase, metaphase, telophase correct sequence of the four phases?	
A) anaphase, telophase, metaphase, prophase B) prophase, anaphase, telophase, metaphase	

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D) metaphase, prophase, anaphase, telophase Answer: C A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3
5) During the prophase, which of the following processes occur? 5)
A) the two identical 'daughter' cells are formed B) the four chromosomes replicate C) the replicated chromosomes separate and migrate to opposite poles of the cell D) the four replicated (but still joined) chromosomes line up at the cell midline Answer: B A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3
6) When the alleles from the two parents are different, the child is described as: 6)
A) a carrier for that trait B) heterozygous C) homozygous D) polygenically determined Answer: B A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
7) Which of the following is not an example of a recessive characteristic? 7)
A) straight hair B) baldness C) green eyes D) facial dimples Answer: D A-Head: Principles of genetic inheritance Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
8) Which syndrome in females is caused by sex chromosome abnormalities and associated with short statur infertility and a tendency for poor memory and spatial ability? 8)
A) Klinefelter's syndrome B) Poly-X syndrome C) XYY syndrome D) Turner's syndrome Answer: D A-Head: Chromosomal abnormalities

Diff: 3
9) Which of the following is a genetic disorder that is caused by chromosomal abnormalities?
A) Down syndrome B) Fragile-X syndrome C) Autism spectrum disorder D) both A and B Answer: D A-Head: Chromosomal abnormalities Learning Obj.: 2.2 Discuss disorders associated with chromosomal abnormalities Graduate Attribute: 1 Core knowledge and understanding Diff: 2
10) Psychologists are interested in attributes of behaviour that are polygenically determined. If aspects of behaviour (e.g. cognitive ability) are governed largely by environmental factors, we would expect to be more similar than 10)
A) adopted siblings; dizygotic twins B) dizygotic twins; non-twin siblings C) dizygotic twins; monozygotic twins D) non-twin siblings; dizygotic twins Answer: B A-Head: Polygenetic inheritance: The role of behaviour genetics Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish betwee inherited and experiential factors in development Graduate Attribute: 1 Core knowledge and understanding Diff: 2
11) Infant babbling, which occurs in all babies, even deaf ones, is an example of: A) kinship B) heritability coefficient C) canalisation D) heritability Answer: C A-Head: Polygenetic inheritance: The role of behaviour genetics Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish betwee inherited and experiential factors in development Graduate Attribute: 1 Core knowledge and understanding Diff: 3
12) What is the term used to describe a ball of cells consisting of two layers of cells resulting from rapid ce replication?
A) trophoblast B) chorion C) blastocyst D) zygote Answer: C A-Head: Prenatal development Learning Obj.: 2.4 Outline the time course of prenatal development Graduate Attribute: 1 Core knowledge and understanding Diff: 2

Learning Obj.: 2.2 Discuss disorders associated with chromosomal abnormalities Graduate Attribute: 1 Core knowledge and understanding

13) which of the following is characteristic of the germinal period of prenatal development?	13)
A) embryonic disc forms three layers B) implantation C) histogenesis D) neural tube forms Answer: B A-Head: Prenatal development Learning Obj.: 2.4 Outline the time course of prenatal development Graduate Attribute: 1 Core knowledge and understanding Diff: 2	13)
14) Which of the following is not a period within prenatal development? A) germinal period B) embryonic period C) foetal period D) placental period Answer: D A-Head: Prenatal development Learning Obj.: 2.4 Outline the time course of prenatal development Graduate Attribute: 1 Core knowledge and understanding Diff: 2	14)
15) Which of the following is not an example of a teratogen in pregnant women?	15)
A) diet B) blood disorders C) personality D) temperature Answer: C A-Head: Teratogenic influences Learning Obj.: 2.5 Identify the principles governing the action of environmental agents that reto the developing embryo/foetus Graduate Attribute: 1 Core knowledge and understanding Diff: 1	nay cause harm
16) Kisilevsky and Muir (1991) recorded the responsiveness of a foetus to a sound via a mic on the mother's abdomen by measuring movements and heart rate. They found that the for responded vigorously to the new sound but this response eventually declined to the point whe elicited a response. This research established that foetuses:	etus initially
A) can hear in utero B) habituate C) discriminate D) show movement Answer: B A-Head: Foetal learning Learning Obj.: 2.6 Assess evidence of prenatal learning Graduate Attribute: 1 Core knowledge and understanding Diff: 2	
17) At birth the child is assessed using the 'Apgar scale.' Which of the following is not one cassessed? A) reflex response B) muscle tone C) head circumference	of the areas 17)

D) colour Answer: C A-Head: The birth process Learning Obj.: 2.7 Identify the adverse effects on infant survival and healthy development of prematurity/low birth weight Graduate Attribute: 1 Core knowledge and understanding Diff: 3
18) A newborn is considered premature if he is born: 18)
A) one or more weeks prior to his due date B) three or more weeks prior to his due date C) five or more weeks prior to his due date D) at least a day prior to his due date Answer: B A-Head: The birth process Learning Obj.: 2.7 Identify the adverse effects on infant survival and healthy development of prematurity/low birth weight Graduate Attribute: 1 Core knowledge and understanding Diff: 2
TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.
19) Research has shown strong genetic links in Alzheimer's disease. 19)
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
20) There are over 7000 known genetic disorders, many of which affect behaviour. 20)
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 2
21) The primary goal of the Human Genome Project was to understand the genetic factors in human diseas
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
22) Research has indicated that bipolar disorder does not have strong genetic links.
Answer: F A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes

Graduate Attribute: 1 Core knowledge and understanding Diff: 1	
23) Meiosis involves normal body cells whereas mitosis involves germ cells.	23)
Answer: F A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 2	mal human
24) In meiosis, crossing-over increases the genetic variablility even further.	24)
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 2	rmal human
25) The phenotype expressed is the result of the gene locus.	25)
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3	rmal human
26) Characteristics such as intelligence and personality are examples of polygenically deterricharacteristics.	nined 26)
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1	rmal human
27) Mum has brown eyes (Bb) and dad has green eyes (bb). Therefore, their first child has a having brown eyes.	25% chance of 27)
Answer: F A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3	mal human
28) Huntington's disease is caused by a recessive gene, whereas phenylketonuria (PKU) is dominant gene.	aused by a 28)
Answer: F A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnor	mal human

Diff: 2
29) The majority of sex-linked traits are produced by recessive genes that are found only on the Y-chromosome.
Answer: F A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
30) An exception to Mendel's law appears to be a group of characteristics that are determined by genes foun only on the sex chromosomes.
Answer: T A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 1
31) Klinefelter's syndrome has a lower incidence than Turner's syndrome. 31)
Answer: F A-Head: Chromosomal abnormalities Learning Obj.: 2.2 Discuss disorders associated with chromosomal abnormalities Graduate Attribute: 1 Core knowledge and understanding Diff: 3
32) Monozygotic twins have an identical genotype. 32)
Answer: T A-Head: Polygenetic inheritance: The role of behaviour genetics Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish betwee inherited and experiential factors in development Graduate Attribute: 1 Core knowledge and understanding Diff: 1
33) Research using monozygotic twins and dizygotic twins shows that IQ and personality are close to 80% genetically inherited.
Answer: F A-Head: Polygenetic inheritance: The role of behaviour genetics Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish betwee inherited and experiential factors in development Graduate Attribute: 1 Core knowledge and understanding Diff: 2
34) If aspects of behaviour (e.g. personality, I.Q) are heritable, monozygotic twins would be more similar than same-sex dizygotic twins on such behaviours.
Answer: T A-Head: Polygenetic inheritance: The role of behaviour genetics Copyright © 2016 Pearson Australia (a division of Pearson Australia Group Pty Ltd)

attributes

Graduate Attribute: 1 Core knowledge and understanding

Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish between inherited and experiential factors in development Graduate Attribute: 1 Core knowledge and understanding Diff: 1
35) In the last month of gestation, the foetus increases in weight by 50%.
Answer: T A-Head: Prenatal development Learning Obj.: 2.4 Outline the time course of prenatal development Graduate Attribute: 1 Core knowledge and understanding Diff: 1
36) The effects of a teratogen are the same irrespective of the developmental stage during which it is presen 36)
Answer: F A-Head: Teratogenic influences Learning Obj.: 2.5 Identify the principles governing the action of environmental agents that may cause harn to the developing embryo/foetus Graduate Attribute: 1 Core knowledge and understanding Diff: 2
37) When studying foetal learning, a consistent heart rate indicates cognitive processing. 37)
Answer: F A-Head: Foetal learning Learning Obj.: 2.6 Assess evidence of prenatal learning Graduate Attribute: 1 Core knowledge and understanding Diff: 2
38) The infant mortality rate for Indigenous infants is approximately twice the rate in the general population 38)
Answer: T A-Head: The birth process Learning Obj.: 2.7 Identify the adverse effects on infant survival and healthy development of prematurity/low birth weight Graduate Attribute: 1 Core knowledge and understanding Diff: 2
ESSAY. Write your answer in the space provided or on a separate sheet of paper.
39) Compare and contrast the processes of mitosis and meiosis.
A-Head: Genetic foundations Learning Obj.: 2.1 Describe the basic principles of genetic transmission of normal and abnormal human attributes Graduate Attribute: 1 Core knowledge and understanding Diff: 3
40) Describe how twin studies provide important information in our understanding of the influence of natur

40) Describe how twin studies provide important information in our understanding of the influence of nature versus nurture on heritability of characteristics such as personality.

A-Head: Polygenetic inheritance: The role of behaviour genetics

Learning Obj.: 2.3 Discuss the ways in which psychologists employ behaviour genetics to distinguish between

inherited and experiential factors in development

Graduate Attribute: 1 Core knowledge and understanding

Diff: 2

41) Discuss possible consequences of drinking alcohol during pregnancy and how it may affect the foetus at each of the three prenatal periods.

A-Head: Teratogenic influences

Learning Obj.: 2.5 Identify the principles governing the action of environmental agents that may cause harm

to the developing embryo/foetus

Graduate Attribute: 1 Core knowledge and understanding

Diff: 3

42) Discuss the maternal diseases and disorders that can produce teratogenic effects on the child and outline their possible effects.

A-Head: Teratogenic influences

Learning Obj.: 2.5 Identify the principles governing the action of environmental agents that may cause harm

to the developing embryo/foetus

Graduate Attribute: 1 Core knowledge and understanding

Diff: 2

43) Pretend you are a researcher interested in foetal learning. Describe what you would do to investigate if infants can remember learning that took place in utero.

A-Head: Foetal learning

Learning Obj.: 2.6 Assess evidence of prenatal learning Graduate Attribute: 1 Core knowledge and understanding

Diff: 2

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