## Co

	ncepts of Genetics 12th Edition Klug Test Bank
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	Name
	MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.
	<ul> <li>1) In the 1600s, William Harvey studied reproduction and development. What is the term given to the theory that states that an organism develops from the fertilized egg by a succession of developmental events that lead to ar adult?         <ul> <li>A) preformation</li> <li>B) transduction</li> <li>C) epigenesis</li> </ul> </li> </ul>
	D) equational transformation E) sequential pattern formation
	Answer: C
	<ul> <li>2) What is the term given to the theory that states that the fertilized egg contains a complete miniature adult? <ul> <li>A) transduction</li> <li>B) preformation</li> <li>C) transformation</li> <li>D) cell theory</li> <li>E) conjugation</li> </ul> </li> <li>Answer: B</li> </ul>
	<ul> <li>3) What is the term given to the theory that put forth the idea that living organisms could arise by incubating nonliving components?</li> <li>A) evolution</li> <li>B) spontaneous generation</li> <li>C) natural selection</li> <li>D) collective combination</li> <li>E) preformation</li> </ul> Answer: B
	<ul> <li>4) What is a homunculus?</li> <li>A) the intermediate stage of the DNA after CRISPR-Cas treatment</li> <li>B) during development sometimes a growing individual's cell can become mutated and one part of the child has different characteristics than the other</li> <li>C) a large cyst or growth on a plant due to viral infection</li> <li>D) when the mitochondrion grows in size before splitting into two via fission</li> <li>E) a sperm or egg containing a miniature adult, perfect in size and proportion</li> </ul> Answer: E
	<ul> <li>5) Who, along with Alfred Wallace, formulated the theory of natural selection?</li> <li>A) James Watson</li> <li>B) Louis Pasteur</li> <li>C) Charles Darwin</li> <li>D) Gregor Mendel</li> <li>E) William Harvey</li> </ul>

Answer: C

that traits are passed from parents to offspring in predictable ways?  A) Francis Crick B) Gregor Mendel C) Hippocrates D) Aristotle E) Alfred Wallace	)WII
Answer: B	
<ul> <li>7) In many species, there are two representatives of each chromosome. In such species, the characteristic num of chromosomes is called the number. It is usually symbolized as</li> <li>A) haploid; n</li> <li>B) monoploid; n</li> <li>C) diploid; n</li> <li>D) haploid; 2n</li> <li>E) diploid; 2n</li> </ul>	ber
Answer: E	
8) Genetics is the study of A) replication and recombination B) transcription and translation C) mutation and recession D) diploid and haploid E) inheritance and variation	
Answer: E	
<ul> <li>9) Early in the twentieth century, Walter Sutton and Theodor Boveri noted that the behavior of chromosomes during meiosis is identical to the behavior of genes during gamete formation. They proposed that genes are carried on chromosomes, which led to the basis of the</li> <li>A) First Law of Thermodynamics</li> <li>B) Chromosome Theory of Inheritance</li> <li>C) Law of Segregation</li> <li>D) Chromosomal Maintenance Theory</li> <li>E) Law of Independent Assortment</li> </ul> Answer: B	
<ul> <li>10) What is a mutation?</li> <li>A) a change in DNA that leads to death</li> <li>B) an inherited change in DNA sequences that is the source of all genetic variation</li> <li>C) an inherited changed in DNA sequence that is always bad for an organism</li> <li>D) an inherited change in a DNA sequence</li> <li>E) the source of all genetic variation</li> <li>Answer: B</li> </ul>	
<ul> <li>11) Which of the following is TRUE about alleles?</li> <li>A) Individuals carry both forms of each allele.</li> <li>B) Alleles come in two forms, the good form and the bad form.</li> <li>C) The phenotype of the individual will always indicate with certainty the alleles of the individual.</li> <li>D) An allele is a variant form of a gene.</li> <li>E) An individual will only carry one version of an allele.</li> <li>Answer: D</li> </ul>	

- 12) Until the mid-1940s, many scientists considered proteins to be the likely candidates for the genetic material. Which of the following characteristics led scientist to believe DNA was NOT the genetic material?
  - A) DNA has less variation than protein.
  - B) Protein can fold into may shapes.
  - C) DNA is less abundant than protein and DNA has less variation than protein.
  - D) DNA is less abundant than protein.
  - E) DNA is more stable than protein.

Answer: C

- 13) Name the individual who, while working with the garden pea in the mid-1850s, demonstrated quantitative patterns of heredity and developed a theory involving the behavior of hereditary factors.
  - A) George Wallace
  - B) Barbara McClintock
  - C) Walter Sutton
  - D) Theodor Boveri
  - E) Gregor Mendel

Answer: E

- 14) Which of the following is the subdiscipline of biology concerned with the study of heredity and variation at the molecular, cellular, developmental, organismal, and populational levels?
  - A) cytogenetics
  - B) genetics
  - C) molecular biology
  - D) cell biology
  - E) biochemistry

Answer: B

- 15) Which of the following is an example of natural selection?
  - A) depending on the food a turtle eats, it shell may grow faster or slower
  - B) human beings develop freckles from being out in the sun
  - C) sometime during human's life they break a bone and it heals
  - D) a bird's beak is able to effectively crack the seeds it encounters
  - E) bacteria can be effectively killed by treatment with bleach

Answer: D

- 16) What term is used to describe the fact that different genes in an organism often provide differences in observable features?
  - A) alleles
  - B) natural selection
  - C) phenotype
  - D) inheritance
  - E) genotype

Answer: C

- 17) Which of the following is an example of heredity?
  - A) Flying squirrels have a different mechanism of flight than mosquitos.
  - B) Flies and molluscs both have eyes.
  - C) Both moths and birds have wings and can fly.
  - D) Doberman pinschers and boxers have similar body shapes.
  - E) Dalmation dogs all have spots.

Answer: E

A) B) C) D)	) both monocotyle ) giraffes have not ) a child does not ) cats can have lor	t been seen in an albi have her mother's ha ng or short fur	ns perform the dark read no form		
Ans	wer: A				
form A B C D E	nation? ) each offspring w ) nothing ) in each successiv	vould have different posterior, the official be compromised	e chromosome number wo chenotypes than their pa spring would double the	rents	
A B C D E	rnative forms of a ) phenotypes ) mutants ) meiotic product: ) alleles ) genotypes wer: D	gene are called			
		istics of organisms th	at result from their gene	tic makeup are collecti	vely referred to as ar
	inism's ) phenotype	B) alleles	C) proteome	D) genome	E) genotype
	wer: A	,	,,,	, 3	7 3
A B C D E	ne the substance the lipid DNA or deoxyri protein carbohydrate RNA or ribonuc	bonucleic acid	ditary material in eukary	yotes and prokaryotes.	
A B C D E	ch of the following ) DNA strand ) hydrogen bond ) sugar ) double helix ) nucleotide wer: D	g contains all the oth	ers?		

24)	A fundamental property of DNA's nitrogenous bases that is necessary for the double-stranded nature of its structure is  A) deoxyribose versus ribose B) anti-parallel C) ring structure D) complementarity E) sugar phosphate backbone  Answer: D
25)	<ul> <li>Which of the following is the function of DNA?</li> <li>A) DNA serves to hold the information for protein, lipid, and carbohydrate storage.</li> <li>B) DNA is used structurally to hold the nucleus together.</li> <li>C) DNA is responsible for the storage and replication of genetic information.</li> <li>D) DNA is involved in the expression of stored genetic information.</li> <li>E) DNA is required when cells are using their ribosomes to translate a protein.</li> <li>Answer: C</li> </ul>
26)	Which of the following molecules serves the function to express the genetic material by being translated to protein?  A) lipid B) cholesterol C) DNA D) RNA E) carbohydrate  Answer: D
27)	Name the bases in DNA and their pairing specificities.  A) adenine:guanine, thymine:cytosine B) adenine:guanine, guanine:uracil C) adenine:cytosine, guanine:uracil D) adenine:thymine, guanine:cytosine E) adenine:uracil, guanine:cytosine Answer: D
28)	The consists of a linear series of three adjacent nucleotides present in mRNA molecules.  A) genetic code B) law of segregation C) Watson—Crick base pairing D) messenger RNA E) chromosomal theory of inheritance Answer: A
29)	Which of the following processes describes the formation of a complementary RNA molecule?  A) mutation  B) transcription  C) translation  D) replication  E) mosaicism  Answer: B

	occur, what would the A) DNA strands be B) cell membranes	e scientist first detect? come shorter would become less per d move into the nucleu ingle stranded	meable	rity between DNA strands	could no longer
	Answer: D	<b>.</b>			
	associate with nucleic	acids. To what class of	molecules does this		
	A) DNA Answer: B	B) tRNA	C) protein	D) amino acids	E) mRNA
	(macromolecules) and A) DNA and RNA B) chromosomes C) lipids and carbol D) RNA (messenge E) DNA and protei	substances made by the hydrates r, ribosomal, and trans	ne cell are associated	yotes, what other general s with the expression of tha mes, and proteins	
	Answer: D				
	<ul><li>A) They are a circul</li><li>B) They are placed</li><li>C) They are comple</li><li>D) They are comple</li></ul>	g are true about codons ar series of nucleotide at random in the RNA mentary to RNA and s mentary to DNA and s mentary to DNA and s	triplets. specify amino acids a are a two-nucleotide	code for an amino acid.	
34)	What is another term to A) protein	for a biological catalys B) ribosome	:? C) lipid	D) codon	E) enzyme
	Answer: E	2,	o,p.a	2, 3343	_,,
	<ul><li>A) the type of cell in</li><li>B) its linear sequence</li><li>C) the cholesterol m</li><li>D) the cell's age</li><li>E) the environment</li></ul>	ce of amino acids nakeup of the lipid me	-		
	Answer: B				
	Once a protein is mad A) mutant Answer: D	e, its biochemical or sti B) genotype	ructural properties p C) DNA	lay a role in producing D) phenotype	E) chromosome

<ul> <li>37) When mutation alters a gene, it may modify of an altered</li> <li>A) structure; genotype</li> <li>B) function; phenotype</li> <li>C) cell type; genotype</li> <li>D) ribosome; phenotype</li> <li>E) function; genotype</li> <li>Answer: B</li> </ul>	or even eliminate the encoded protein's usual	and cause
	on a particular class of enzymes, known as	_ that cuts
<ul> <li>39) What represents an organism's genome?</li> <li>A) all the protein in a cell</li> <li>B) the nuclear and mitochondrial DNAs</li> <li>C) a catalog of mutations in a cell</li> <li>D) all the RNA in a cell</li> </ul>	s the complete haploid nuclear DNA content of an	organism.
40) A is an organism produced by biotect species.  A) clone B) frankenfood C) transgenic organism D) vector E) mutant Answer: C	chnology that involves the transfer of hereditary to	raits across
<ul> <li>41) What term is applied to a variety of projects we purposes?</li> <li>A) bioinformatics</li> <li>B) cloning</li> <li>C) proteomics</li> <li>D) genetics</li> <li>E) genomics</li> <li>Answer: E</li> </ul>	vhereby genome sequences are deposited in databa	ases for research

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42) Organisms that are well understood from a scientific standpoint and are often used in basic biological research
are often called
A) clones
B) vectors
C) restriction enzymes
D) model organisms
E) recombinant DNA technology
Answer: D
43) is a discipline involved in the development of both hardware and software for processing, storing, and
retrieving nucleotide and protein data.
A) Cloning
7.9 Glotting
B) Bioinformatics
, g
B) Bioinformatics
B) Bioinformatics C) Recombinant DNA technology