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Pathology

MULTIPLE CHOICE

- The feedback of acute inflammation is:
 - Increased blood flow
 - Rubin, pain, calor, tumor increased permeability of microvasculature
 - Increased vascular permeability
 - Increased exudate
- The most efficient bactericidal component present in neutrophils is the:
 - peroxidase-myeloperoxidase
 - lysosomal enzymes
 - H_2O_2 -NADPH-oxidase system
 - hydrogen peroxide
- Lactoferrin are derived from azurophilic and through the help of the enzyme:
 - Chitinase
 - Cathepsin
 - Chitinase
 - Lactase
- The feedback of chronic inflammation is:
 - Increased permeability of microvasculature
 - Myeloperoxidase release by white cells
 - Increased vascular permeability
 - Microvascular cell infiltration
- An example of tumor suppressor gene:
 - p53
 - Rb
 - ras
 - src
- A single nucleotide change was diagnosed as substitution. This type of errors is characteristic of:
 - Chaperone
 - Comet
 - Chaperone
 - Chaperone
- Which of the following substances accumulates in atherosclerotic blood vessels?
 - LDL-cholesterol
 - Triglyceride
 - Cholesterol ester
 - Phospholipid
- Heart failure is often found in the large in Chronic Renal Failure are actually...
 - lymphatic
 - neurogenic
 - hemodynamic
 - hemodynamic
- The outcome of fibrosis which the fibrosis leads to GROW due to deposition of collagen fibers, fibronectin and elastin cells.
 - Resorption
 - Regeneration
 - Resorption
 - Regeneration
- Most common cause of death in burn patients who get into shock is:
 - Septic
 - Chaperone
 - Septic
 - Septic
- The type of hyperemphysema reaction is called by:
 - Type I
 - Type II
 - Type III
 - Type IV
- One of the three major components of acute inflammation is:
 - Adhesion molecule rather than leads to a decrease in blood flow
 - Chemical changes in the microvasculature permits plasma proteins and leukocytes to leave the circulation
 - Thrombolytic activation
 - Leading by endothelial tissue

PART A: Multiple choice questions. Answer these on the sheet provided.

Homeostasis

- Which of the following is the best description of homeostasis?
 - maintenance of body function
 - maintenance of body function at the optimum level at all times
 - multiple systems working cooperatively to maintain body function at an optimum level
 - keeping the body in balance
 - multiple systems working cooperatively to maintain body function within normal limits
- Which of the following is true?
 - the regulation of body temperature by sweating involves positive feedback
 - childbirth is a way of maintaining homeostasis
 - uncontrolled bleeding is an example of homeostasis
 - a fever in response to infection is NOT a way of maintaining homeostasis
 - the nervous system controls all homeostasis

Cells and transport

- Organelles that absorb and neutralize drugs and toxins are
 - Lysosomes
 - Peroxisomes
 - Smooth endoplasmic reticulum
 - Nuclei
 - Endocytic vesicles

4. The following is a list of the steps involved in the process of secretion by the Golgi apparatus.

- Material moves from cisterna to cisterna by means of transfer vesicles.
- Exocytosis.
- Products from RER are packaged into transport vesicles.
- Secretory vesicles are formed at the maturing face.
- Vesicles arrive at the forming face.
- Enzymes modify arriving proteins and glycoproteins

The correct order is

- 5, 6, 1, 4, 2, 3
- 2, 3, 5, 6, 1, 4
- 4, 3, 1, 6, 5, 2
- 3, 5, 6, 1, 4, 2
- 1, 3, 6, 4, 2, 5

5. Generally, cells with a very brief interphase and lacking a G₂ phase

- are stem cells
- do not exhibit cytokinesis
- have brief life spans
- are reproductive cells
- lack the enzyme DNA polymerase

6. The components of ribosomes are formed within

- The endoplasmic reticulum
- Golgi complexes
- Lysosomes
- Mitochondria
- Nucleoli

7. As each codon arrives at the active site of a ribosome, it attracts another molecule containing the anticodon. The molecule is called

- mRNA
- DNA
- rRNA
- tRNA
- RNA

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Answers

- The cables, usually are used to:
 - prevent the moisture from entering the cable
 - provide enough strength
 - provide proper insulation
 - none of the above
- Answers: A
- The dielectric in the cables are used to:
 - insulate the wires
 - avoid the requirement of good insulation
 - provide proper stress distribution
 - none of the above
- Answers: C
- The dielectric stress in underground cables is:
 - same at the conductor and the sheath
 - maximum at the conductor and minimum at the sheath
 - maximum at the conductor and minimum at the sheath
 - same at the conductor as well as on the sheath
- Answers: D
- The breakdown of insulation of the cable can be avoided economically by the use of:
 - non dielectric
 - insulating material with different dielectric constants
 - both (a) and (b)
 - none of the above
- Answers: C
- The insulation of the cable decreases with:
 - the increase in length of the insulation
 - the decrease in the length of the insulation
 - either (a) or (b)
 - none of the above
- Answers: B
- A cable carrying alternating current has:
 - hydrogen losses only
 - hydrogen and oxygen losses only
 - hydrogen, leakage and copper losses only
 - hydrogen, leakage, copper and iron losses
- Answers: D
- In cables the voltage stress is maximum at:
 - sheath
 - insulator
 - surface of the conductor
 - core of the conductor
- Answers: C
- Capacitive grading of cable implies:
 - use of dielectrics of different permittivities
 - grading according to capacitance of cables per unit length
 - cables using single dielectrics of different permittivities
 - capacitance required to be introduced at different angles to counter the effect of inductance

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152 TOP Thermodynamics - Mechanical Engineering Multiple choice Questions and Answers List

The modynamics Questions and Answers pdf free download

1. Which of the following variables controls the physical properties of a perfect gas

- (a) pressure
- (b) temperature
- (c) volume
- (d) all of the above
- (e) atomic mass.

Ans: d

2. Which of the following laws is applicable for the behavior of a perfect gas

- (a) Boyle's law
- (b) Charles' law
- (c) Gay-Lussac law
- (d) all of the above
- (e) Joule's law.

Ans: d

3. The unit of temperature in S.I. units is

- (a) Centigrade
- (b) Celsius
- (c) Fahrenheit
- (d) Kelvin
- (e) Rankine.

Ans: d

4. The unit of mass in S.I. units is

- (a) kilogram
- (b) gram
- (c) tonne
- (d) quintal
- (e) newton.

Ans: a

5. The unit of time in S.I. units is

- (a) second
- (b) minute

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C) they leave the nucleus and are dispersed to other parts of the cell. C) The chromosomes have the same genes in the same location. C) They have twice the amount of cytoplasm and half the amount of DNA. E) They have half the number of chromosomes and half the amount of DNA. A) 75% B) 25% C) 50% D) 0% E) 100% 14) In a cross between two heterozygous (Aa), results will be: A) in the ratio 1:3 homozygous to heterozygous B) in the ratio 1:1 homozygous to heterozygous C) in the ratio 1 :3 heterozygous to homozygous D) all heterozygous E) all homozygous Answers: 1.A, 2.C, 3.A, 4.B, 5.G1, 6.D, 7.B, 8.B, 9.E, 10.A, 11.A, 12.D, 13.C, 14.B (a) Law of segregation is the law of purity of genes (b) Alleles separate from each other during gametogenesis (c) Segregation of factors is due to the segregation of chromosomes during meiosis (d) All of the above Answer Answer: (d) All of the above 7. 13) In crossing a homozygous recessive with a heterozygote, what is the chance of getting an offspring with the homozygous recessive phenotype? B) They have half the amount of cytoplasm and twice the amount of DNA. A) the rarity of such mutations B) some amino acids have more than one codon C) a correcting mechanism that is part of the mRNA molecule D) A and B E) A, B and C 5.) A researcher treats cells with a chemical that prevents DNA synthesis from starting. This treatment would trap the cells in which part of the cell cycle? 7.) Cytokinesis usually, but not always, follows mitosis. 12.) When a gene for a given trait comes in alternative versions that specify different forms of the trait (for example, purple-flower and white-flower versions of a flower color gene), the versions of the gene are called A) loci. E) gametes. Pea plants were used in Mendel's experiments because (a) They were cheap (b) They had contrasting characters (c) They were available easily (d) All of the above Answer Answer: (b) They had contrasting characters 10. B) an advantage. If cells undergo mitosis and not cytokinesis, this would result in A) a cell with a single large nucleus B) a cell with two nuclei. 11.) An allele that is fully expressed is referred to as (fully expressed means that the allele is transcribed and translated into a perfectly functional protein) A) dominant. Who is known as the "Father of Genetics"? B) The daughter cells will have half the number of chromosomes and half the amount of DNA. C) cells with abnormally small nuclei D) feedback responses that prevent mitosis E) death of a cell line 8.) It is difficult to observe individual chromosomes with a light microscope during prophase because A) the DNA has not been replicated yet. When the activity of one gene is suppressed by the activity of a non-allelic gene, it is known as (a) Pseudo-dominance (b) Hypostasis (c) Epistasis (d) Incomplete dominance Answer Answer: (c) Epistasis 14. D) an anticodon. 9:7 ratio in the F2 generation represents (a) Incomplete dominance (b) Co-dominance (c) Epistasis (d) Complementary interaction Answer Answer: (c) Epistasis 16. A response will appear in the window below the question to let you know if you are correct. It is designed to help you learn the material. Question types will include multiple choice, structured, mathematical and practical questions. Exam and non-exam assessments for students taking qualifications during the pandemic may be subject to change. D) They have the same number of chromosomes and half the amount of DNA. Alleles are (a) Alternate forms of genes (b) Linked genes (c) Chromosomes that have crossed over (d) Homologous chromosomes Answer Answer: (a) Alternate forms of genes 13. 6.) How do the daughter cells at the end of mitosis and cytokinesis compare with their parent cell when it was in G1 of the cell cycle? B) supergenes. How does this relate to homologous chromosomes? D) The chromosomes always move to the same location in the cell during division. How many phenotypes can occur in the human blood group ABO with alleles IA IB? The crossing of F1 to any of the parent is known as (a) Test cross (b) Back cross (c) F1 cross (d) All of the above Answer Answer: (b) Back cross 6. D) heterozygous. Mendel's findings were rediscovered by (a) Correns (b) De Vries (c) Tschermak (d) All Answer Answer: (d) All 12. A) A chromosome contains hundreds of genes, which are composed of DNA. C) chromosomes. C) A gene contains hundreds of chromosomes, which are composed of protein. E) A gene contains hundreds of chromosomes, which are composed of DNA. D) A gene is composed of DNA, but there is no relationship to a chromosome. D) each polypeptide catalyzes a specific reaction. 4.) A base substitution mutation in a gene sometimes has no effect on the protein the gene codes for. Which of the following factors could account for this? 10.) In a given organism, how do cells at completion of meiosis compare with cells that are just about to begin meiosis? E) Both B and C are correct. E) none of the above. C) The daughter cells will have the same number of chromosomes and half the amount of DNA. C) a codon. (a) 2 (b) 3 (c) 4 (d) 1 Answer Answer: (c) 4 19. Homozygosity and heterozygosity of an individual can be determined by (a) Back cross (b) Self-fertilization (c) Test cross (d) All of the above Answer Answer: (c) Test cross 8. C) homologous. The geometrical device that helps to find out all the possible combinations of male and female gametes is known as (a) Bateson Square (b) Mendel Square (c) Punnett Square (d) Mendel Square Answer Answer: (c) Punnett Square 20. A) The daughter cells will have half the amount of cytoplasm and half the amount of DNA. Score: 0% Rank: Correct Answer: Start Quiz >> 1. (a) Morgan (b) Mendel (c) Watson (d) Bateson Answer Answer: (b) Mendel 3. E) a translocation. 2.) The "one gene - one polypeptide" theory states that A) the synthesis of each gene is catalyzed by one specific enzyme. Which term represents a pair of contrasting characters? Understanding how to approach exam questions helps to boost exam performance. Be sure to read the feedback. A small amount of lethal mutation is always present in the population due to (a) Positive selection (b) Negative selection (c) Frequency-dependent selection (d) Mutation-selection balance Answer Answer: (d) Mutation-selection balance 17. E) the spindle must move them to the metaphase plate before they become visible. C) the function of an individual gene is to dictate the production of a specific polypeptide. Cystic fibrosis is (a) Sex-linked recessive disorder (b) Autosomal dominant disorder (c) Autosomal recessive disorder (d) Sex-linked dominant disorder Answer Answer: (c) Autosomal recessive disorder 15. The tendency of an offspring to resemble its parent is known as (a) Variation (b) Heredity (c) Resemblance (d) Inheritance Answer Answer: (b) Heredity 2. B) recessive. An exception to Mendel's law is (a) Independent assortment (b) Linkage (c) Dominance (d) Purity of gametes Answer Answer: (b) Linkage 9. Please check with your teacher. 9.) The word homologous literally means same location. D) alleles. A) They have half the number of chromosomes and one-fourth the amount of DNA. All rights reserved. Score: 0% Rank: Correct Answer: Start Quiz >> Tags MCQ Multiple Choice Questions and Answers on Genetics Genetics Trivia Questions and Answers PDF Genetics Question and Answer Sorry, but the page you were trying to view does not exist. The alternate form of a gene is (a) Alternate type (b) Recessive character (c) Dominant character (d) Allele Answer Answer: (d) Allele 4. E) The daughter cells will have the same number of chromosomes and twice the amount of DNA. 3.) Any change in the nucleotide sequence of the DNA of a gene is called A) a mutation. B) A chromosome contains hundreds of genes, which are composed of protein. B) the synthesis of each enzyme is catalyzed by one specific gene. Understanding how to approach exam questions helps to boost exam performance. A) All of the below are correct. The smallest unit of genetic material which produces a phenotypic effect on mutation is (a) Muton (b) Gene (c) Recon (d) Nucleic acid Answer Answer: (a) Muton 11. B) The bands resulting from staining are found in the same location. (a) Heterozygous (b) Homozygous (c) Codominant genes (d) Allelomorphs Answer Answer: (d) Allelomorphs No. of Questions= 10 INSTRUCTIONS: To answer a question, click the button in front of your choice. D) The daughter cells will have the same number of chromosomes and the same amount of DNA. The genotypic ratio of a monohybrid cross is (a) 1:2:1 (b) 3:1 (c) 2:1:1 (d) 9:3:3:1 Answer Answer: (a) 1:2:1 5. Multiple choice questions from class 1.) What is the relationship among DNA, a gene, and a chromosome? B) they are uncoiled in long, thin strands. You can also learn by reading the feedback for incorrect answers. Return to List of Practice Quizzes. Copyright © 1999-2012 by Dennis O'Neil. If a plant with genotype AaBb is self-fertilized, the probability of getting AABB genotype will be (A and B are not linked) (a) ¼ (b) ¼ (c) ¼ (d) 1/16 Answer Answer: (d) 1/16 18. E) both a and d. D) sister chromatids do not pair up until division starts. Which of the following statements is true regarding the "law of segregation"?

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