

Ⓒ 3

Ⓓ 4

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Ⓒ 62 inches

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26 The book belongs to ____.

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Ⓐ our

Ⓑ my

Ⓒ their

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Ⓐ your

Ⓑ his

Ⓒ her

Ⓓ its

31 What is the direct object in the following sentence: 'She baked cookies for the party.'?

1 point

32 Which sentence contains a dangling modifier?

1 point

Ⓐ Cooking dinner, the smoke alarm went off.

Ⓑ Playing the guitar, the song was familiar.

- Ⓒ Singing in the shower, the hot water ran out.
- Ⓓ Walking in the park, the flowers bloomed beautifully.

33 The car belongs to ___ and my brother.

1 point

- Ⓐ Me
- Ⓑ My
- Ⓒ I
- Ⓓ Mine

34 The book belongs to ____.

1 point

- Ⓐ our
- Ⓑ their
- Ⓒ my
- Ⓓ her

35 Which sentence contains a dangling modifier?

1 point

- Ⓐ Laughing uncontrollably, the joke was hilarious.
- Ⓑ Playing the piano, the dog barked loudly.
- Ⓒ Riding a bike, the park was peaceful.
- Ⓓ Skiing down the slope, the snow was fresh.

36 What is the direct object in the sentence: 'She painted her room purple.'?

1 point

- Ⓐ purple
- Ⓑ painted
- Ⓒ room
- Ⓓ She

37 Which sentence contains a dangling modifier?

1 point

- Ⓐ Driving in traffic, the radio played my favorite song.
- Ⓑ Eating popcorn, the movie started.
- Ⓒ Running in the park, the sun set.
- Ⓓ Smiling happily, the news was received.

38 Which sentence uses correct parallel structure?

1 point

- Ⓐ They were laughing, joking, and play video games.
- Ⓑ We like to travel, hiking, and camping.
- Ⓒ He enjoys to cook, bake, and gardening.
- Ⓓ She is running, swimming, and to ride a bike.

39 The data collected from the survey _____ inconclusive.

1 point

- Ⓐ are
- Ⓑ is
- Ⓒ have been
- Ⓓ were

40 The book belongs to ____.

1 point

- Ⓐ my
- Ⓑ its
- Ⓒ your
- Ⓓ his

41 The book, as well as the pen, _____ on the table.

1 point

- (A) are (B) is
(C) were (D) was

42 Choose the sentence that correctly uses a semicolon.

1 point

- (A) I like ice cream; but not chocolate.
(B) She loves painting; and he loves drawing.
(C) He went to the store; bought some milk.
(D) They were tired; however, they continued working.

43 Which sentence is grammatically correct? A. She don't like to eat vegetables. B. She doesn't like to eat vegetables. C. She not like to eat vegetables. D. She do not like to eat vegetables.

1 point

- (A) She not like to eat vegetables. (B) She doesn't like to eat vegetables.
(C) She don't like to eat vegetables. (D) She do not like to eat vegetables.

44 Each of the students must complete _____ assignment individually.

1 point

- (A) its (B) her
(C) his (D) their

45 The book belongs to _____.

1 point

- (A) their (B) his
(C) my (D) her

46 Nobody has seen _____ since the meeting last week.

1 point

- (A) their (B) his
(C) her (D) its

47 Which sentence uses correct subject-verb agreement?

1 point

- (A) The student study hard for exams. (B) The students studies hard for exams.
(C) The students study hard for exams. (D) The student studies hard for exams.

48 Which sentence uses correct punctuation?

1 point

- (A) The concert was amazing however I wish it was longer.
(B) The concert was amazing, however, I wish it was longer.
(C) The concert was amazing however, I wish it was longer.
(D) The concert was amazing, however I wish it was longer.

49 Which sentence is grammatically correct? A. He don't like coffee. B. He doesn't likes coffee. C. He not like coffee. D. He doesn't like coffee.

1 point

- A He doesn't likes coffee.
- B He don't like coffee.
- C He not like coffee.
- D He doesn't like coffee.

50 Which sentence uses correct parallel structure?

1 point

- A He is working hard, hardly, and hardly works.
- B They are laughing, joking, and to have fun.
- C The dog is barking, jumping, and likes to chase its tail.
- D She is singing, dancing, and to play the piano.

51 What was the significance of the Mayflower Compact?

1 point

- A It was a social contract for self-governance
- B It declared independence from England
- C It established the first constitution in the colonies
- D It created an alliance with Native Americans

52 Which year did Christopher Columbus first arrive in the Americas?

1 point

- A 1500
- B 1607
- C 1776
- D 1492

53 Which amendment granted African American men the right to vote?

1 point

- A 14th Amendment
- B 19th Amendment
- C 15th Amendment
- D 13th Amendment

54 Which colony was established by the Quakers under the leadership of William Penn?

1 point

- A New York
- B Pennsylvania
- C Rhode Island
- D New Jersey

55 Which Founding Father was the first Secretary of the Treasury?

1 point

- A Thomas Jefferson
- B John Adams
- C Alexander Hamilton
- D Benjamin Franklin

56 Which Founding Father served as the second President of the United States?

1 point

- A James Madison
- B John Adams
- C Benjamin Franklin
- D Thomas Jefferson

57 What was the main cause of the American Civil War?

1 point

- A Slavery
- B Political disputes
- C Economic differences
- D Territorial expansion

58 Which amendment prohibits excessive bail and cruel and unusual punishment?

1 point

- (A) Fifth Amendment
- (B) Sixth Amendment
- (C) Eighth Amendment
- (D) Seventh Amendment

59 Where did General Robert E. Lee surrender to General Ulysses S. Grant?

1 point

- (A) Richmond, Virginia
- (B) Gettysburg, Pennsylvania
- (C) Atlanta, Georgia
- (D) Appomattox Court House, Virginia

60 Which landform is characterized by steep walls and a flat bottom, typically formed by the erosion of rock?

1 point

- (A) Glacier
- (B) Canyon
- (C) Island
- (D) Peninsula

61 Which type of business is most likely to be found in an industrial zone?

1 point

- (A) Clothing store
- (B) Farm
- (C) Factory
- (D) Restaurant

62 Which landform is characterized by a narrow, elongated strip of land surrounded by water on three sides?

1 point

- (A) Canyon
- (B) Delta
- (C) Peninsula
- (D) Island

63 Which religion celebrates Diwali, the festival of lights?

1 point

- (A) Buddhism
- (B) Islam
- (C) Hinduism
- (D) Christianity

64 Which biome is known for its permafrost layer beneath the soil?

1 point

- (A) Taiga
- (B) Savanna
- (C) Desert
- (D) Tundra

65 Which concept involves evaluating other cultures based on the standards of one's own culture?

1 point

- (A) Cultural diffusion
- (B) Pluralism
- (C) Cultural relativism
- (D) Ethnocentrism

66 Which empire was known for its extensive trade routes throughout Europe, Asia, and Africa?

1 point

- (A) Mongol Empire
- (B) Ottoman Empire

Ⓒ Inca Empire

Ⓓ Roman Empire

67 What is a common characteristic of buildings in an industrial zone?

1 point

Ⓐ Large warehouses

Ⓑ Small cottages

Ⓒ High-rise apartments

Ⓓ Shopping malls

68 What is a mortgage?

1 point

Ⓐ A loan to buy real estate

Ⓑ A type of credit card

Ⓒ A savings account

Ⓓ An investment in stocks

69 What is the primary goal of humanitarian intervention?

1 point

Ⓐ To protect human rights

Ⓑ To expand economic markets

Ⓒ To promote cultural exchange

Ⓓ To enhance military power

70 Which of the following is considered a fixed expense?

1 point

Ⓐ Utility bills

Ⓑ Entertainment

Ⓒ Groceries

Ⓓ Rent

71 Which economic indicator represents the total amount of money spent by the government?

1 point

Ⓐ Producer Price Index (PPI)

Ⓑ Gross Domestic Product (GDP)

Ⓒ Consumer Price Index (CPI)

Ⓓ Government Spending

72 What is the purpose of a balanced budget in fiscal policy?

1 point

Ⓐ To stabilize the economy

Ⓑ To reduce trade deficits

Ⓒ To reduce inflation

Ⓓ To increase government debt

73 What is the advantage of a high-interest savings account?

1 point

Ⓐ Better customer service

Ⓑ More accessibility

Ⓒ Lower fees

Ⓓ Higher interest earnings

74 Which country is known for having the highest number of multinational corporations?

1 point

Ⓐ Germany

Ⓑ China

Ⓒ Japan

Ⓓ United States

75 What does the Consumer Price Index (CPI) primarily measure?

1 point

Ⓐ Employment levels

Ⓑ Government spending

Ⓒ Changes in the price level of a basket of consumer goods and services

Ⓓ Average wage rates

76 Which of the following is a benefit of civic engagement?

1 point

- Ⓐ Higher consumption of media
Ⓑ Greater personal isolation
Ⓒ Increased personal leisure time
Ⓓ Improved community resources

77 Which amendment reserves powers not delegated to the federal government to the states or the people?

1 point

- Ⓐ Tenth Amendment
Ⓑ Twelfth Amendment
Ⓒ Ninth Amendment
Ⓓ Eleventh Amendment

78 Which amendment in the Bill of Rights guarantees the freedom of speech?

1 point

- Ⓐ Third Amendment
Ⓑ Fourth Amendment
Ⓒ Second Amendment
Ⓓ First Amendment

79 Which of the following is a common form of civic engagement?

1 point

- Ⓐ Taking a vacation
Ⓑ Volunteering for a local charity
Ⓒ Playing video games
Ⓓ Going to the movies

80 Who is the head of the executive branch of the federal government?

1 point

- Ⓐ The Chief Justice
Ⓑ The Speaker of the House
Ⓒ The President
Ⓓ The Vice President

81 Which of the following actions exemplifies civic engagement?

1 point

- Ⓐ Participating in a local election campaign
Ⓑ Joining a book club
Ⓒ Taking a personal vacation
Ⓓ Watching a movie marathon

82 Which amendment protects against self-incrimination and double jeopardy?

1 point

- Ⓐ Sixth Amendment
Ⓑ Eighth Amendment
Ⓒ Seventh Amendment
Ⓓ Fifth Amendment

83 Which amendment prohibits excessive bail, excessive fines, and cruel and unusual punishments?

1 point

- Ⓐ Sixth Amendment
Ⓑ Eighth Amendment
Ⓒ Fifth Amendment
Ⓓ Seventh Amendment

84 Which of Newton's laws explains why passengers lurch forward in a car when it suddenly stops?

1 point

- A Newton's Second Law
- B Newton's Third Law
- C Newton's First Law
- D Newton's Law of Universal Gravitation

85 Which particle is responsible for determining the chemical properties of an atom?

1 point

- A Electron
- B Neutron
- C Proton
- D Photon

86 Which type of reaction involves one element replacing another in a compound?

1 point

- A Single displacement reaction
- B Synthesis reaction
- C Decomposition reaction
- D Double displacement reaction

87 Which of the following statements is true regarding the Law of Conservation of Mass?

1 point

- A It applies only to chemical changes
- B It does not apply to either physical or chemical changes
- C It applies only to physical changes
- D It applies to both physical and chemical changes

88 Which of the following is an example of a physical change?

1 point

- A Cooking an egg
- B Melting ice
- C Rusting iron
- D Burning wood

89 In a closed system, if the mass of the reactants is 50 grams, what will be the mass of the products?

1 point

- A 100 grams
- B 50 grams
- C 25 grams
- D 75 grams

90 What is the characteristic property of mercury regarding its state at room temperature?

1 point

- A It is a solid
- B It is a liquid
- C It is a plasma
- D It is a gas

91 Which type of electromagnetic wave is used for broadcasting television signals?

1 point

- A Radio waves
- B Gamma rays
- C X-rays
- D Visible light

92 In a chemical reaction, what term describes the initial substances that undergo change?

1 point

- A Intermediates
- B Products

Ⓒ Reactants

Ⓓ Catalysts

93 Which process is responsible for converting glucose into pyruvate, generating ATP in the absence of oxygen?

1 point

Ⓐ Oxidative phosphorylation

Ⓑ Krebs cycle

Ⓒ Electron transport chain

Ⓓ Glycolysis

94 Which type of muscle is found in the heart?

1 point

Ⓐ Skeletal muscle

Ⓑ Smooth muscle

Ⓒ Voluntary muscle

Ⓓ Cardiac muscle

95 What is CRISPR technology used for?

1 point

Ⓐ Cooking

Ⓑ Space travel

Ⓒ Gene editing

Ⓓ Building construction

96 Which type of selection involves humans breeding organisms for specific traits?

1 point

Ⓐ Artificial Selection

Ⓑ Directional Selection

Ⓒ Natural Selection

Ⓓ Sexual Selection

97 What is the main role of the Golgi apparatus in the cell?

1 point

Ⓐ Protein modification and sorting

Ⓑ DNA synthesis

Ⓒ Energy production

Ⓓ Cell division

98 Which part of the eye is responsible for focusing light on the retina?

1 point

Ⓐ Pupil

Ⓑ Iris

Ⓒ Lens

Ⓓ Cornea

99 What is the name of the process by which DNA is copied before cell division?

1 point

Ⓐ Replication

Ⓑ Recombination

Ⓒ Translation

Ⓓ Transcription

100 What is the term for genetic variation that occurs at a single nucleotide position in the genome?

1 point

Ⓐ Single nucleotide polymorphism

Ⓑ Copy number variation

Ⓒ Microsatellite

Ⓓ Gene conversion

101 What is the primary mechanism by which natural selection operates?

1 point

Ⓐ Differential reproductive success

Ⓑ Genetic drift

Ⓒ Mutation

Ⓓ Gene flow

102 Which layer of the Earth is composed mostly of iron and nickel?

1 point

- (A) Inner Core
- (B) Mantle
- (C) Crust
- (D) Outer Core

103 What is the name of the first manned mission to land on the Moon?

1 point

- (A) Gemini 12
- (B) Mercury 7
- (C) Apollo 13
- (D) Apollo 11

104 Which planet has the fastest winds in the solar system?

1 point

- (A) Neptune
- (B) Jupiter
- (C) Earth
- (D) Saturn

105 What is the final stage of a low-mass star's life cycle?

1 point

- (A) White dwarf
- (B) Red giant
- (C) Black hole
- (D) Neutron star

106 Which phenomenon is characterized by the rising of warm air at the equator?

1 point

- (A) Advection
- (B) Convection
- (C) Condensation
- (D) Radiation

107 What happens to a star when it exhausts its hydrogen fuel?

1 point

- (A) It expands into a red giant
- (B) It becomes a black hole
- (C) It becomes a white dwarf
- (D) It becomes a neutron star

108 What is the primary cause of ocean acidification?

1 point

- (A) Deforestation
- (B) Increased CO2 emissions
- (C) Plastic pollution
- (D) Oil spills

109 What is the name of the wind belt found between 30° and 60° latitude?

1 point

- (A) Monsoon winds
- (B) Trade winds
- (C) Polar easterlies
- (D) Westerlies

110 Which of the following is a renewable energy source?

1 point

- (A) Coal
- (B) Nuclear energy
- (C) Natural gas
- (D) Wind power

5 If $2x + 3 = 7$, what is the value of x ?

1 point

- (A) 2 (B) 1
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1 point

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 10 heads

- 5 heads
 3 heads

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Its area is

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 $6\frac{1}{2}$ inches

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- (A) -2 (B) -3

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Ⓓ 0

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1 point

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Ⓑ his

Ⓒ its

Ⓓ their

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Ⓐ your

Ⓑ his

Ⓒ her

Ⓓ its

31 What is the direct object in the following sentence: 'She baked cookies for the party.'?

1 point

cookies

32 Which sentence contains a dangling modifier?

1 point

Ⓐ Cooking dinner, the smoke alarm went off.

- B Playing the guitar, the song was familiar.
- C Singing in the shower, the hot water ran out.
- D Walking in the park, the flowers bloomed beautifully.

33 The car belongs to ___ and my brother.

1 point

- A Me
- B My
- C I
- D Mine

34 The book belongs to _____.

1 point

- A our
- B their
- C my
- D her

35 Which sentence contains a dangling modifier?

1 point

- A Laughing uncontrollably, the joke was hilarious.
- B Playing the piano, the dog barked loudly.
- C Riding a bike, the park was peaceful.
- D Skiing down the slope, the snow was fresh.

36 What is the direct object in the sentence: 'She painted her room purple.'?

1 point

- A purple
- B painted
- C room
- D She

37 Which sentence contains a dangling modifier?

1 point

- A Driving in traffic, the radio played my favorite song.
- B Eating popcorn, the movie started.
- C Running in the park, the sun set.
- D Smiling happily, the news was received.

38 Which sentence uses correct parallel structure?

1 point

- A They were laughing, joking, and play video games.
- B We like to travel, hiking, and camping.
- C He enjoys to cook, bake, and gardening.
- D She is running, swimming, and to ride a bike.

39 The data collected from the survey _____ inconclusive.

1 point

- A are
- B is
- C have been
- D were

40 The book belongs to _____.

1 point

- A my
- B its

Ⓒ your

Ⓓ his

41 The book, as well as the pen, _____ on the table.

1 point

Ⓐ are

is

Ⓒ were

Ⓓ was

42 Choose the sentence that correctly uses a semicolon.

1 point

Ⓐ I like ice cream; but not chocolate.

Ⓑ She loves painting; and he loves drawing.

Ⓒ He went to the store; bought some milk.

They were tired; however, they continued working.

43 Which sentence is grammatically correct? A. She don't like to eat vegetables. B. She doesn't like to eat vegetables. C. She not like to eat vegetables. D. She do not like to eat vegetables.

1 point

Ⓐ She not like to eat vegetables.

She doesn't like to eat vegetables.

Ⓒ She don't like to eat vegetables.

Ⓓ She do not like to eat vegetables.

44 Each of the students must complete _____ assignment individually.

1 point

Ⓐ its

Ⓑ her

his

Ⓓ their

45 The book belongs to _____.

1 point

their

Ⓑ his

Ⓒ my

Ⓓ her

46 Nobody has seen _____ since the meeting last week.

1 point

Ⓐ their

his

Ⓒ her

Ⓓ its

47 Which sentence uses correct subject-verb agreement?

1 point

Ⓐ The student study hard for exams.

Ⓑ The students studies hard for exams.

The students study hard for exams.

Ⓓ The student studies hard for exams.

48 Which sentence uses correct punctuation?

1 point

Ⓐ The concert was amazing however I wish it was longer.

The concert was amazing, however, I wish it was longer.

Ⓒ The concert was amazing however, I wish it was longer.

Ⓓ The concert was amazing, however I wish it was longer.

49 Which sentence is grammatically correct? A. He don't like coffee. B. He doesn't likes coffee. C. He not like coffee. D. He doesn't like coffee.

1 point

- A He doesn't likes coffee. B He don't like coffee.
 C He not like coffee. D He doesn't like coffee.

50 Which sentence uses correct parallel structure?

1 point

- A He is working hard, hardly, and hardly works.
 B They are laughing, joking, and to have fun.
 C The dog is barking, jumping, and likes to chase its tail.
 D She is singing, dancing, and to play the piano.

51 What was the significance of the Mayflower Compact?

1 point

- A It was a social contract for self-governance
 B It declared independence from England
 C It established the first constitution in the colonies
 D It created an alliance with Native Americans

52 Which year did Christopher Columbus first arrive in the Americas?

1 point

- A 1500 B 1607
 C 1776 D 1492

53 Which amendment granted African American men the right to vote?

1 point

- A 14th Amendment B 19th Amendment
 C 15th Amendment D 13th Amendment

54 Which colony was established by the Quakers under the leadership of William Penn?

1 point

- A New York B Pennsylvania
 C Rhode Island D New Jersey

55 Which Founding Father was the first Secretary of the Treasury?

1 point

- A Thomas Jefferson B John Adams
 C Alexander Hamilton D Benjamin Franklin

56 Which Founding Father served as the second President of the United States?

1 point

- A James Madison B John Adams
 C Benjamin Franklin D Thomas Jefferson

57 What was the main cause of the American Civil War?

1 point

- A Slavery
 B Political disputes
 C Economic differences
 D Territorial expansion

58 Which amendment prohibits excessive bail and cruel and unusual punishment?

1 point

- A Fifth Amendment
 B Sixth Amendment
 C Eighth Amendment
 D Seventh Amendment

59 Where did General Robert E. Lee surrender to General Ulysses S. Grant?

1 point

- A Richmond, Virginia
 B Gettysburg, Pennsylvania
 C Atlanta, Georgia
 D Appomattox Court House, Virginia

60 Which landform is characterized by steep walls and a flat bottom, typically formed by the erosion of rock?

1 point

- A Glacier
 B Canyon
 C Island
 D Peninsula

61 Which type of business is most likely to be found in an industrial zone?

1 point

- A Clothing store
 B Farm
 C Factory
 D Restaurant

62 Which landform is characterized by a narrow, elongated strip of land surrounded by water on three sides?

1 point

- A Canyon
 B Delta
 C Peninsula
 D Island

63 Which religion celebrates Diwali, the festival of lights?

1 point

- A Buddhism
 B Islam
 C Hinduism
 D Christianity

64 Which biome is known for its permafrost layer beneath the soil?

1 point

- A Taiga
 B Savanna
 C Desert
 D Tundra

65 Which concept involves evaluating other cultures based on the standards of one's own culture?

1 point

- A Cultural diffusion
 B Pluralism
 C Cultural relativism
 D Ethnocentrism

66 Which empire was known for its extensive trade routes throughout Europe, Asia, and Africa?

1 point

- A Mongol Empire
- B Ottoman Empire
- C Inca Empire
- D Roman Empire

67 What is a common characteristic of buildings in an industrial zone?

1 point

- A Large warehouses
- B Small cottages
- C High-rise apartments
- D Shopping malls

68 What is a mortgage?

1 point

- A A loan to buy real estate
- B A type of credit card
- C A savings account
- D An investment in stocks

69 What is the primary goal of humanitarian intervention?

1 point

- A To protect human rights
- B To expand economic markets
- C To promote cultural exchange
- D To enhance military power

70 Which of the following is considered a fixed expense?

1 point

- A Utility bills
- B Entertainment
- C Groceries
- D Rent

71 Which economic indicator represents the total amount of money spent by the government?

1 point

- A Producer Price Index (PPI)
- B Gross Domestic Product (GDP)
- C Consumer Price Index (CPI)
- D Government Spending

72 What is the purpose of a balanced budget in fiscal policy?

1 point

- A To stabilize the economy
- B To reduce trade deficits
- C To reduce inflation
- D To increase government debt

73 What is the advantage of a high-interest savings account?

1 point

- A Better customer service
- B More accessibility
- C Lower fees
- D Higher interest earnings

74 Which country is known for having the highest number of multinational corporations?

1 point

- A Germany
- B China
- C Japan
- D United States

75 What does the Consumer Price Index (CPI) primarily measure?

1 point

- (A) Employment levels
- (B) Government spending
- (C) Changes in the price level of a basket of consumer goods and services
- (D) Average wage rates

76 Which of the following is a benefit of civic engagement?

1 point

- (A) Higher consumption of media
- (B) Greater personal isolation
- (C) Increased personal leisure time
- (D) Improved community resources

77 Which amendment reserves powers not delegated to the federal government to the states or the people?

1 point

- (A) Tenth Amendment
- (B) Twelfth Amendment
- (C) Ninth Amendment
- (D) Eleventh Amendment

78 Which amendment in the Bill of Rights guarantees the freedom of speech?

1 point

- (A) Third Amendment
- (B) Fourth Amendment
- (C) Second Amendment
- (D) First Amendment

79 Which of the following is a common form of civic engagement?

1 point

- (A) Taking a vacation
- (B) Volunteering for a local charity
- (C) Playing video games
- (D) Going to the movies

80 Who is the head of the executive branch of the federal government?

1 point

- (A) The Chief Justice
- (B) The Speaker of the House
- (C) The President
- (D) The Vice President

81 Which of the following actions exemplifies civic engagement?

1 point

- (A) Participating in a local election campaign
- (B) Joining a book club
- (C) Taking a personal vacation
- (D) Watching a movie marathon

82 Which amendment protects against self-incrimination and double jeopardy?

1 point

- (A) Sixth Amendment
- (B) Eighth Amendment
- (C) Seventh Amendment
- (D) Fifth Amendment

83 Which amendment prohibits excessive bail, excessive fines, and cruel and unusual punishments?

1 point

- A Sixth Amendment B Eighth Amendment
 C Fifth Amendment D Seventh Amendment

84 Which of Newton's laws explains why passengers lurch forward in a car when it suddenly stops?

1 point

- A Newton's Second Law
 B Newton's Third Law
 C Newton's First Law
 D Newton's Law of Universal Gravitation

85 Which particle is responsible for determining the chemical properties of an atom?

1 point

- A Electron B Neutron
 C Proton D Photon

86 Which type of reaction involves one element replacing another in a compound?

1 point

- A Single displacement reaction B Synthesis reaction
 C Decomposition reaction D Double displacement reaction

87 Which of the following statements is true regarding the Law of Conservation of Mass?

1 point

- A It applies only to chemical changes
 B It does not apply to either physical or chemical changes
 C It applies only to physical changes
 D It applies to both physical and chemical changes

88 Which of the following is an example of a physical change?

1 point

- A Cooking an egg B Melting ice
 C Rusting iron D Burning wood

89 In a closed system, if the mass of the reactants is 50 grams, what will be the mass of the products?

1 point

- A 100 grams B 50 grams
 C 25 grams D 75 grams

90 What is the characteristic property of mercury regarding its state at room temperature?

1 point

- A It is a solid B It is a liquid
 C It is a plasma D It is a gas

91 Which type of electromagnetic wave is used for broadcasting television signals?

1 point

- Radio waves
 X-rays
 Gamma rays
 Visible light

92 In a chemical reaction, what term describes the initial substances that undergo change?

1 point

- Intermediates
 Reactants
 Products
 Catalysts

93 Which process is responsible for converting glucose into pyruvate, generating ATP in the absence of oxygen?

1 point

- Oxidative phosphorylation
 Electron transport chain
 Krebs cycle
 Glycolysis

94 Which type of muscle is found in the heart?

1 point

- Skeletal muscle
 Voluntary muscle
 Smooth muscle
 Cardiac muscle

95 What is CRISPR technology used for?

1 point

- Cooking
 Gene editing
 Space travel
 Building construction

96 Which type of selection involves humans breeding organisms for specific traits?

1 point

- Artificial Selection
 Natural Selection
 Directional Selection
 Sexual Selection

97 What is the main role of the Golgi apparatus in the cell?

1 point

- Protein modification and sorting
 Energy production
 DNA synthesis
 Cell division

98 Which part of the eye is responsible for focusing light on the retina?

1 point

- Pupil
 Lens
 Iris
 Cornea

99 What is the name of the process by which DNA is copied before cell division?

1 point

- Replication
 Translation
 Recombination
 Transcription

100 What is the term for genetic variation that occurs at a single nucleotide position in the genome?

1 point

- Single nucleotide polymorphism
 Microsatellite
 Copy number variation
 Gene conversion

101 What is the primary mechanism by which natural selection operates?

1 point

- Differential reproductive success
 Mutation
 Genetic drift
 Gene flow

102 Which layer of the Earth is composed mostly of iron and nickel?

1 point

- Inner Core
 Crust
 Mantle
 Outer Core

103 What is the name of the first manned mission to land on the Moon?

1 point

- Gemini 12
 Apollo 13
 Mercury 7
 Apollo 11

104 Which planet has the fastest winds in the solar system?

1 point

- Neptune
 Earth
 Jupiter
 Saturn

105 What is the final stage of a low-mass star's life cycle?

1 point

- White dwarf
 Black hole
 Red giant
 Neutron star

106 Which phenomenon is characterized by the rising of warm air at the equator?

1 point

- Advection
 Condensation
 Convection
 Radiation

107 What happens to a star when it exhausts its hydrogen fuel?

1 point

- It expands into a red giant
 It becomes a white dwarf
 It becomes a black hole
 It becomes a neutron star

108 What is the primary cause of ocean acidification?

1 point

- Deforestation
 Plastic pollution
 Increased CO₂ emissions
 Oil spills

109 What is the name of the wind belt found between 30° and 60° latitude?

1 point

- A Monsoon winds
- B Trade winds
- C Polar easterlies
- D Westerlies

110 Which of the following is a renewable energy source?

1 point

- A Coal
- B Nuclear energy
- C Natural gas
- D Wind power