

6 A rectangle has dimensions of 25 inches by $12\frac{1}{2}$ inches. Its perimeter is:

1 point

- (A) 70 inches
(B) 75 inches
(C) 80 inches
(D) 77 inches

7 What is the value of y when $x = 1$ in the equation $y = 2x + 3$?

1 point

- (A) 5
(B) 2
(C) 3
(D) 4

8 The table below shows the ages of incoming first-year students in a local college.

The following statements represent facts about the age of a student selected at random.

Age (Years)	Number of students
18	200
19	100
20	160
22	120
24	70
26	50
28	10
36	20

I = The student is over 20 years of age.

II = The student is over 35 years of age.

III = The student is under 40 years of age.

IV = The student is in his or her 20s.

Fill in the number of students who fall into the II categories:

1 point

- (A) 20
(B) 50
(C) 12
(D) 70

9 If $3x + 4 = 7$ and $2x - y = 10$, what is the value of y ?

1 point

- (A) $y = -3$
(B) $y = -2$
(C) $y = 0$
(D) $y = -1$

10 Factor the following polynomial completely: $x^3 + 2x^2 - 15x$.

The factors are:

1 point

- (A) $x(x^2 + x - 15)$
(B) $x(x - 3)(x + 5)$

Ⓒ $x(x + 3)(x^2 - 5)$

Ⓓ $x(x + 5)(x - 15)$

11 Consider two equations $y = 7x + 2$ and $y = -6x + 3$. If these two equations were plotted on the same graph, they would meet at the point (x, y) . At that point, the slopes of the two lines would be

1 point

- Ⓐ Equal to each other
Ⓒ Undefined

- Ⓑ Zero
Ⓓ Different from each other

12 At a fundraiser, Mr. Allen announced loudly that he will contribute a certain amount of money. Not to be outdone, Mr. Brown says, "I'll give double that," and in an effort to impress the crowd, Mr. Chase pledges to give as much as both of them plus another \$100. If the total of the pledges from the three men is \$1,400, what equation describes this situation?

1 point

- Ⓐ $A + B + C = 1400$
Ⓒ $x = 1400 + 2x + (x + 2x + 100)$

- Ⓑ $x + 2x + (3x + 100) = 1400$
Ⓓ Not enough information is given.

13 Mike needs to ride his bike 25 miles to his friend's house. He rides at an average rate of 5 miles per hour. He has 5 hours to get there. Can he make it on time?

1 point

- Ⓐ He will be late by 1 hour.
Ⓒ No, he cannot make it on time.

- Ⓑ He will be late by 2 hours.
Ⓓ Yes, he can make it on time.

14 After breakfast, Mark has to take a pill every 40 minutes. He takes the first one at 6:00 a.m. At what time does he take his third pill?

1 point

- Ⓐ 6:40 a.m.
Ⓒ 7:20 a.m.

- Ⓑ 7:00 a.m.
Ⓓ 7:40 a.m.

15 A store has a sale of 20% off the list price of everything. John buys a jacket listed at \$100 and a pair of shoes listed at \$50. If there is a 7% sales tax on the purchase, what is the total bill?

1 point

- Ⓐ \$136.85
Ⓒ \$128.40

- Ⓑ \$135.50
Ⓓ \$129.45

16 If $x - 11(x + 3) = 2$, what is x ?

1 point

- Ⓐ 9
Ⓒ -8

- Ⓑ 8
Ⓓ -9

17 A rectangle has dimensions of 10 inches by $5\frac{1}{2}$ inches. Its perimeter is:

1 point

- Ⓐ 30 inches
Ⓒ 25 inches

- Ⓑ 31 inches
Ⓓ 28 inches

18 Solve for x : $x - 5 = 10$

1 point

- A 15 B 20
 C 5 D 10

19 Matt measures the height of a sunflower every other week over a three-month period and records the results in the following table.

weeks	Height (in cm)
1	3.00
3	4.70
5	6.40
7	8.10
9	9.80
11	11.50
13	13.20

Denise creates an equation that will allow her to predict the height of the sunflower in the future, where x is the week and y is the height. Which of the following gives the correct equation?

1 point

- A $(3, 4.7)$ and $(11, 11.5)$ B $(4.7, 5)$ and $(11.5, 10)$
 C $(3, 4.7)$ and $(11, 11.5)$ D $(5, 6.7)$ and $(10, 11.5)$

20 Factor the polynomial completely: $x^2 - 25$

1 point

- A $(x - 5)(x - 5)$ B $(x + 5)(x + 5)$
 C $(x + 5)(x - 5)$ D $(x + 25)(x - 1)$

21 What is the value of x in the equation $3(x + 4) = 21$?

1 point

- A $x = 3$ B $x = 9$
 C $x = 7$ D $x = 5$

22 Jessica needs to ride her bike 50 miles to her friend's house. She rides at an average rate of 10 miles per hour. She has 5 hours to get there. Can she make it on time?

1 point

- A She will be late by 2 hours. B No, she cannot make it on time.
 C She will be late by 1 hour. D Yes, she can make it on time.

23 How long must a ladder be if it is 12 feet high on the wall of a building and the foot of the ladder is 7 feet from the building?

1 point

- A 13 feet B 14 feet
 C 15 feet D 16 feet

24 Simplify the expression: $4x - 2(3x + 5)$

1 point

- A $-2x + 10$ B $2x + 10$

25 The table below shows the ages of incoming first-year students in a local college.

The following statements represent facts about the age of a student selected at random.

Age (Years)	Number of students
18	200
19	100
20	160
22	120
24	70
26	50
28	10
36	20

I = The student is over 20 years of age.

II = The student is over 35 years of age.

III = The student is under 40 years of age.

IV = The student is in his or her 20s.

Fill in the number of students who don't fall into the I categories:

1 point

- (A) 460
(B) 320
(C) 540
(D) 490

26 Which sentence correctly uses a semicolon?

1 point

- (A) She is going on vacation; to relax.
(B) I finished my work early; so I could go home.
(C) He enjoys playing basketball; with his friends.
(D) They went for a walk; and then had a picnic.

27 Which sentence contains a dangling modifier?

1 point

- (A) Screaming in terror, the spider was quickly squashed.
(B) Sleeping peacefully, the thunder woke me up.
(C) Walking in the park, the flowers bloomed brightly.
(D) Reading a book, the story was captivating.

28 The book belongs to ____.

1 point

- (A) her
(B) they
(C) our
(D) its

29 What is the coordinating conjunction in the sentence: 'I will go for a run, or I will go to the gym.'?

1 point

- Ⓐ gym
- Ⓑ or
- Ⓒ for
- Ⓓ run

30 Choose the sentence that corrects the parallel structure error: 'The manager needs to set goals, assign tasks, and to motivate the team.'

1 point

- Ⓐ The manager needs to set goals, assign tasks, and motivate the team.
- Ⓑ The manager needs to set goals, to assign tasks, and motivating the team.
- Ⓒ The manager needs to set goals, assigning tasks, and motivate the team.
- Ⓓ The manager needs to set goals, assigning tasks, and motivating the team.

31 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.

32 Which of the following sentences demonstrates correct usage of 'whom'?

1 point

- Ⓐ Whom is going to the store?
- Ⓑ Whom did you see at the party?
- Ⓒ Whom are you talking about?
- Ⓓ Whom can help me with this?

33 The book belongs to ____.

1 point

- Ⓐ your
- Ⓑ his
- Ⓒ her
- Ⓓ its

34 Identify the direct object in the sentence: 'They built a sandcastle on the beach.'

1 point

- Ⓐ sandcastle
- Ⓑ beach
- Ⓒ built
- Ⓓ They

35 What is a clause?

1 point

- Ⓐ A group of words with a subject and predicate
- Ⓑ A group of words without a subject
- Ⓒ A single word
- Ⓓ A group of words without a verb

36 Identify the prepositional phrase in the following sentence: The dog ran through the tunnel.

1 point

- Ⓐ The dog
- Ⓑ Ran through
- Ⓒ Through the tunnel
- Ⓓ The tunnel

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

1 point

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

38 Choose the sentence that correctly uses 'stationery'?

1 point

- (A) He remained stationery during the meeting.
- (B) The stationery bike was used for exercise.
- (C) The car was stationery throughout the storm.
- (D) She bought new stationery for her office.

39 Nobody wants to lose _____ keys.

1 point

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

40 _____ was the one who fixed the computer.

1 point

- (A) His
- (B) Himself
- (C) Him
- (D) He

41 Which sentence uses correct punctuation?

1 point

- (A) The cat that, was hiding under the bed, finally came out.
- (B) The cat, that was hiding under the bed, finally came out.
- (C) The cat that was hiding under the bed finally came out.
- (D) The cat that was hiding under the bed, finally came out.

42 Which sentence correctly uses the past perfect tense?

1 point

- (A) I seen him yesterday.
- (B) I saw him yesterday.
- (C) I had seen him yesterday.
- (D) I have seen him yesterday.

43 Which of the following sentences has a compound sentence structure?

1 point

- (A) I like apples and I like oranges.
- (B) I like apples when they are fresh.
- (C) I like apples because they are sweet.
- (D) I like apples.

44 Which sentence correctly uses a semicolon?

1 point

- (A) The sun was shining; it was a beautiful day.
- (B) She is studying for her exams; because she wants to pass.
- (C) I need to finish my homework, before I can go out; with my friends.
- (D) They decided to go for a walk; and then have lunch.

45 Which sentence is grammatically correct? A. They have went to the beach. B. They have gone to the beach. C. They has went to the beach. D. They has gone to the beach.

1 point

- A They have gone to the beach.
- B They has gone to the beach.
- C They have went to the beach.
- D They has went to the beach.

46 Identify the prepositional phrase in the following sentence: They went to the beach during the summer.

1 point

- A To the beach
- B During the summer
- C They went
- D The beach

47 Which sentence correctly uses 'elicit'?

1 point

- A The loud noise elicited a reaction from the crowd.
- B She had an illicit relationship.
- C The investigator tried to illicit information.
- D The elicit drug trade was discovered.

48 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.

49 The team captain is responsible for _____ team's performance.

1 point

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

50 Identify the coordinating conjunction in the sentence: 'She likes to dance, yet she never takes lessons.'

1 point

- A to
- B dance
- C yet
- D likes

51 Which Founding Father is known for his famous 'Give me liberty, or give me death!' speech?

1 point

- A Thomas Paine
- B Samuel Adams
- C John Hancock
- D Patrick Henry

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

1 point

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

53 Who was responsible for the establishment of the United States Navy?

1 point

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

54 Which Founding Father was the first Vice President of the United States?

1 point

- (A) James Madison
- (B) Thomas Jefferson
- (C) Alexander Hamilton
- (D) John Adams

55 Which colony was originally founded by the Dutch and later taken over by the English?

1 point

- (A) Virginia
- (B) Georgia
- (C) New York
- (D) Maryland

56 Who led the rebellion in Virginia in 1676 against the colonial government?

1 point

- (A) Thomas Hooker
- (B) Nathaniel Bacon
- (C) William Berkeley
- (D) John Smith

57 What was the primary economic activity in the New England colonies?

1 point

- (A) Shipbuilding and fishing
- (B) Tobacco farming
- (C) Cotton plantations
- (D) Rice cultivation

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

1 point

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

59 Which colony was originally founded as a debtor's refuge and a buffer against Spanish Florida?

1 point

- (A) New Jersey
- (B) Delaware
- (C) South Carolina
- (D) Georgia

60 Which religion primarily uses the Torah as its sacred text?

1 point

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

61 Which term refers to the mutual respect and coexistence of diverse cultures within a society?

1 point

- (A) Cultural pluralism
- (B) Cultural imperialism
- (C) Cultural assimilation
- (D) Cultural isolation

62 Which of the following is the longest river in the world?

1 point

- (A) Yangtze River
- (B) Amazon River
- (C) Nile River
- (D) Mississippi River

63 Which of the following is the largest island in the world?

1 point

- (A) Madagascar
- (B) New Guinea
- (C) Borneo
- (D) Greenland

64 What is the primary focus of economic geography?

1 point

- (A) Cultural traditions
- (B) Economic activities
- (C) Political boundaries
- (D) Climate patterns

65 What is the place of worship for Muslims called?

1 point

- (A) Mosque
- (B) Church
- (C) Temple
- (D) Synagogue

66 Which trade route was used to transport goods from the Baltic Sea region?

1 point

- (A) Royal Road
- (B) Incense Route
- (C) Silk Road
- (D) Amber Road

67 Which landform is typically formed by volcanic activity and consists of a peak with a crater?

1 point

- (A) Valley
- (B) Delta
- (C) Volcano
- (D) Mesa

68 Fiscal policy involves changes in what?

1 point

- (A) Interest rates
- (B) Government spending and taxation
- (C) Trade tariffs
- (D) Money supply

69 Which economic policy tool would likely be used to combat high inflation?

1 point

- (A) Decreasing government spending
- (B) Lowering taxes
- (C) Increasing interest rates
- (D) Increasing money supply

70 Which of the following is a type of savings account?

1 point

- (A) Loan account
- (B) Credit card account
- (C) Checking account
- (D) Money market account

71 Which of the following is a personal factor affecting consumer behaviour?

1 point

- (A) Reference groups
- (B) Culture
- (C) Age
- (D) Social class

72 Which of the following is a characteristic of a market economy?

1 point

- (A) Central planning
- (B) Government control of all resources
- (C) Equal distribution of wealth
- (D) Prices determined by supply and demand

73 What does the Housing Starts indicator measure?

1 point

- (A) The total value of consumer goods sold
- (B) The number of new residential construction projects started
- (C) The unemployment rate
- (D) The rate of inflation

74 What does the Retail Sales indicator measure?

1 point

- (A) The number of new jobs created
- (B) Total sales of goods and services by retailers
- (C) Changes in the price level of consumer goods
- (D) Total value of goods and services produced

75 Which of the following is an example of political interventionism?

1 point

- (A) Imposing economic sanctions
- (B) Signing a free trade agreement
- (C) Hosting international sports events
- (D) Providing humanitarian aid

76 What is civic engagement primarily concerned with?

1 point

- (A) Shopping at local stores
- (B) Watching television
- (C) Traveling abroad
- (D) Participating in community activities

77 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

78 Which amendment states that the enumeration of certain rights in the Constitution shall not be construed to deny or disparage others retained by the people?

1 point

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

79 Who nominates justices to the Supreme Court?

1 point

- A The President
- B The Senate
- C The House of Representatives
- D The Chief Justice

80 What can individuals do to engage civically?

1 point

- A Focus only on personal goals
- B Ignore local issues
- C Stay isolated from neighbors
- D Volunteer at community events

81 Which amendment prohibits the quartering of soldiers in private homes without the owner's consent?

1 point

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

82 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

83 Which amendment gave Congress the power to levy an income tax?

1 point

- A Twenty-sixth Amendment
- B Nineteenth Amendment
- C Sixteenth Amendment
- D Twenty-first Amendment

84 Atmospheric diffraction affects which type of electromagnetic waves the most?

1 point

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

85 What state of matter does not have a definite shape but has a definite volume?

1 point

- A Liquid
- B Plasma
- C Gas
- D Solid

86 Which of the following statements is true according to Newton's Third Law?

1 point

- A Forces always act in isolation
- B For every action, there is an equal and opposite reaction
- C The acceleration of an object is proportional to the net force acting on it
- D An object will remain at rest unless acted upon

87 Which of the following describes the speed of a wave?

1 point

- A The distance between two consecutive crests
- B The height of the wave
- C The number of waves passing a point per second
- D The distance a wave travels per unit time

88 Which thermodynamic cycle is used in refrigerators and heat pumps?

1 point

- (A) Rankine Cycle
- (B) Brayton Cycle
- (C) Reversed Carnot Cycle
- (D) Carnot Cycle

89 Which state of matter can be described as ionized gas?

1 point

- (A) Liquid
- (B) Plasma
- (C) Solid
- (D) Gas

90 Which of the following best describes the Law of Conservation of Mass?

1 point

- (A) Mass can be both created and destroyed
- (B) Mass can be created but not destroyed
- (C) Mass is conserved and remains constant
- (D) Mass can be destroyed but not created

91 Which state of matter is water an example of at room temperature?

1 point

- (A) Liquid
- (B) Solid
- (C) Gas
- (D) Plasma

92 Which type of radiation involves the emission of a helium nucleus?

1 point

- (A) X-ray radiation
- (B) Beta radiation
- (C) Gamma radiation
- (D) Alpha radiation

93 What term describes the role an organism plays in its ecosystem?

1 point

- (A) Community
- (B) Niche
- (C) Biome
- (D) Habitat

94 Which organelle is responsible for photosynthesis in plant cells?

1 point

- (A) Vacuole
- (B) Lysosome
- (C) Chloroplast
- (D) Mitochondria

95 Which of the following is an example of a decomposer?

1 point

- (A) Eagle
- (B) Mushroom
- (C) Deer
- (D) Grass

96 What is the likelihood of a child inheriting a recessive trait if both parents are carriers?

1 point

- (A) 75%
- (B) 25%
- (C) 0%
- (D) 50%

97 What is the primary function of the small intestine?

1 point

- A Absorbing nutrients
- B Producing bile
- C Storing glycogen
- D Filtering blood

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

1 point

- A Differential reproductive success
- B Genetic drift
- C Mutation
- D Gene flow

99 What is the primary source of energy for most ecosystems?

1 point

- A Geothermal energy
- B Chemical energy
- C Wind
- D Solar energy

100 Which type of joint is found in the shoulder and hip, allowing for a wide range of movement?

1 point

- A Saddle joint
- B Ball-and-socket joint
- C Hinge joint
- D Pivot joint

101 What is biotechnology primarily concerned with?

1 point

- A Manipulating biological organisms
- B Developing software
- C Studying celestial bodies
- D Building mechanical devices

102 Which severe weather event is known for causing widespread destruction due to high winds and heavy rain?

1 point

- A Drought
- B Hurricane
- C Tornado
- D Blizzard

103 What causes the formation of the jet streams?

1 point

- A Temperature differences between air masses
- B Ocean currents
- C Solar flares
- D Mountain ranges

104 Which planet has the highest mountain in the solar system, Olympus Mons?

1 point

- A Venus
- B Earth
- C Mars
- D Jupiter

105 Which planet is known as Earth's twin due to its similar size and composition?

1 point

- A Mars
- B Venus
- C Mercury
- D Jupiter

106 What is the name of the phenomenon where galaxies appear to be moving away from us?

1 point

- (A) Redshift
- (B) Blueshift
- (C) Black Hole
- (D) Supernova

107 Which winds are known for blowing from east to west near the equator?

1 point

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

108 Which of the following practices can help reduce deforestation?

1 point

- (A) Promoting paper recycling
- (B) Increasing cattle ranching
- (C) Expanding urban areas
- (D) Using more fossil fuels

109 Which of the following is an abiotic component of an ecosystem?

1 point

- (A) Sunlight
- (B) Trees
- (C) Birds
- (D) Insects

110 Which space telescope was launched in 1990 to observe distant galaxies?

1 point

- (A) Kepler
- (B) Hubble
- (C) James Webb
- (D) Spitzer

GED Full-Length Practice Test - Complete Simulation #3

DATE

PERSONAL INFORMATION

FIRST NAME

LAST NAME

EMAIL

1 What is the value of y when $x = 0$ in the equation $y = 2x + 3$?

1 point

- (A) 0 (B) 3
 (C) 2 (D) 5

2 A store has a sale of 25% off the list price of everything. Mark buys a watch listed at \$200 and a wallet listed at \$50. If there is a 8% sales tax on the purchase, what is the total bill?

1 point

- (A) \$202.50 (B) \$210.60
 (C) \$207.00 (D) \$195.50

3 A cone is 8 inches deep and has a radius at the base of 6 inches. What is the volume of the cone?

1 point

- (A) 75.40 cubic inches (B) 150.80 cubic inches
 (C) 301.59 square inches (D) 301.59 cubic inches

4 Lisa needs to ride her bike 15 miles to her cousin's house. She rides at an average rate of 5 miles per hour. She has 4 hours to get there. Can she make it on time?

1 point

- (A) No, she cannot make it on time. (B) She will be late by 2 hours.
 (C) Yes, she can make it on time. (D) She will be late by 1 hour.

5 How long must a ladder be if it is 10 feet high on the wall of a building and the foot of the ladder is 6 feet from the building?

1 point

- (A) 12 feet (B) 10 feet
 (C) 14 feet (D) 11 feet

10 Factor the following polynomial completely: $x^3 + 2x^2 - 15x$.

The factors are:

1 point

- (A) $x(x^2 + x - 15)$ (B) $x(x - 3)(x + 5)$
 (C) $x(x + 3)(x^2 - 5)$ (D) $x(x + 5)(x - 15)$

11 Consider two equations $y = 7x + 2$ and $y = -6x + 3$. If these two equations were plotted on the same graph, they would meet at the point (x, y) . At that point, the slopes of the two lines would be

1 point

- (A) Equal to each other (B) Zero
 (C) Undefined (D) Different from each other

12 At a fundraiser, Mr. Allen announced loudly that he will contribute a certain amount of money. Not to be outdone, Mr. Brown says, "I'll give double that," and in an effort to impress the crowd, Mr. Chase pledges to give as much as both of them plus another \$100. If the total of the pledges from the three men is \$1,400, what equation describes this situation?

1 point

- (A) $A + B + C = 1400$ (B) $x + 2x + (3x + 100) = 1400$
 (C) $x = 1400 + 2x + (x + 2x + 100)$ (D) Not enough information is given.

13 Mike needs to ride his bike 25 miles to his friend's house. He rides at an average rate of 5 miles per hour. He has 5 hours to get there. Can he make it on time?

1 point

- (A) He will be late by 1 hour. (B) He will be late by 2 hours.
 (C) No, he cannot make it on time. (D) Yes, he can make it on time.

14 After breakfast, Mark has to take a pill every 40 minutes. He takes the first one at 6:00 a.m. At what time does he take his third pill?

1 point

- (A) 6:40 a.m. (B) 7:00 a.m.
 (C) 7:20 a.m. (D) 7:40 a.m.

15 A store has a sale of 20% off the list price of everything. John buys a jacket listed at \$100 and a pair of shoes listed at \$50. If there is a 7% sales tax on the purchase, what is the total bill?

1 point

- (A) \$136.85 (B) \$135.50
 (C) \$128.40 (D) \$129.45

16 If $x - 11(x + 3) = 2$, what is x ?

1 point

- (A) 9 (B) 8
 (C) -8 (D) -9

17 A rectangle has dimensions of 10 inches by 5 1/2 inches. Its perimeter is:

1 point

- (A) 30 inches (B) 31 inches
 (C) 25 inches (D) 28 inches

18 Solve for x: $x - 5 = 10$

1 point

- (A) 15 (B) 20
 (C) 5 (D) 10

19 Matt measures the height of a sunflower every other week over a three-month period and records the results in the following table.

weeks	Height (in cm)
1	3.00
3	4.70
5	6.40
7	8.10
9	9.80
11	11.50
13	13.20

Denise creates an equation that will allow her to predict the height of the sunflower in the future, where x is the week and y is the height. Which of the following gives the correct equation?

1 point

- (A) $(3, 4.7)$ and $(11, 11.5)$ (B) $(4.7, 5)$ and $(11.5, 10)$
 (C) $(3, 4.7)$ and $(11, 11.5)$ (D) $(5, 6.7)$ and $(10, 11.5)$

20 Factor the polynomial completely: $x^2 - 25$

1 point

- (A) $(x - 5)(x - 5)$ (B) $(x + 5)(x + 5)$
 (C) $(x + 5)(x - 5)$ (D) $(x + 25)(x - 1)$

21 What is the value of x in the equation $3(x + 4) = 21$?

1 point

- (A) $x = 3$ (B) $x = 9$
 (C) $x = 7$ (D) $x = 5$

22 Jessica needs to ride her bike 50 miles to her friend's house. She rides at an average rate of 10 miles per hour. She has 5 hours to get there. Can she make it on time?

1 point

- (A) She will be late by 2 hours. (B) No, she cannot make it on time.
 (C) She will be late by 1 hour. (D) Yes, she can make it on time.

23 How long must a ladder be if it is 12 feet high on the wall of a building and the foot of the ladder is 7 feet from the building?

1 point

- (A) 13 feet (B) 14 feet

Ⓒ 15 feet

Ⓓ 16 feet

24 Simplify the expression: $4x - 2(3x + 5)$

1 point

Ⓐ $-2x + 10$

Ⓑ $2x + 10$

Ⓒ $2x - 10$

$-2x - 10$

25 The table below shows the ages of incoming first-year students in a local college.

The following statements represent facts about the age of a student selected at random.

Age (Years)	Number of students
18	200
19	100
20	160
22	120
24	70
26	50
28	10
36	20

I = The student is over 20 years of age.

II = The student is over 35 years of age.

III = The student is under 40 years of age.

IV = The student is in his or her 20s.

Fill in the number of students who don't fall into the I categories:

1 point

460

Ⓑ 320

Ⓒ 540

Ⓓ 490

26 Which sentence correctly uses a semicolon?

1 point

Ⓐ She is going on vacation; to relax.

I finished my work early; so I could go home.

Ⓒ He enjoys playing basketball; with his friends.

Ⓓ They went for a walk; and then had a picnic.

27 Which sentence contains a dangling modifier?

1 point

Ⓐ Screaming in terror, the spider was quickly squashed.

Ⓑ Sleeping peacefully, the thunder woke me up.

Walking in the park, the flowers bloomed brightly.

Ⓓ Reading a book, the story was captivating.

28 The book belongs to _____.

1 point

- her they
 our its

29 What is the coordinating conjunction in the sentence: 'I will go for a run, or I will go to the gym.'?

1 point

- gym or
 for run

30 Choose the sentence that corrects the parallel structure error: 'The manager needs to set goals, assign tasks, and to motivate the team.'

1 point

- The manager needs to set goals, assign tasks, and motivate the team.
 The manager needs to set goals, to assign tasks, and motivating the team.
 The manager needs to set goals, assigning tasks, and motivate the team.
 The manager needs to set goals, assigning tasks, and motivating the team.

31 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.

32 Which of the following sentences demonstrates correct usage of 'whom'?

1 point

- Whom is going to the store? Whom did you see at the party?
 Whom are you talking about? Whom can help me with this?

33 The book belongs to _____.

1 point

- your his
 her its

34 Identify the direct object in the sentence: 'They built a sandcastle on the beach.'

1 point

- sandcastle beach
 built They

35 What is a clause?

1 point

- A group of words with a subject and predicate
 A group of words without a subject
 A single word
 A group of words without a verb

36 Identify the prepositional phrase in the following sentence: The dog ran through the tunnel.

1 point

- A The dog
 B Through the tunnel
 C Ran through
 D The tunnel

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

1 point

- A purple
 B room
 C painted
 D She

38 Choose the sentence that correctly uses 'stationery'?

1 point

- A He remained stationery during the meeting.
 B The stationery bike was used for exercise.
 C The car was stationery throughout the storm.
 D She bought new stationery for her office.

39 Nobody wants to lose _____ keys.

1 point

- A her
 B his
 C its
 D their

40 _____ was the one who fixed the computer.

1 point

- A His
 B Himself
 C Him
 D He

41 Which sentence uses correct punctuation?

1 point

- A The cat that, was hiding under the bed, finally came out.
 B The cat, that was hiding under the bed, finally came out.
 C The cat that was hiding under the bed finally came out.
 D The cat that was hiding under the bed, finally came out.

42 Which sentence correctly uses the past perfect tense?

1 point

- A I seen him yesterday.
 B I had seen him yesterday.
 C I saw him yesterday.
 D I have seen him yesterday.

43 Which of the following sentences has a compound sentence structure?

1 point

- A I like apples and I like oranges.
 B I like apples when they are fresh.
 C I like apples because they are sweet.
 D I like apples.

44 Which sentence correctly uses a semicolon?

1 point

- A The sun was shining; it was a beautiful day.
- B She is studying for her exams; because she wants to pass.
- C I need to finish my homework, before I can go out; with my friends.
- D They decided to go for a walk; and then have lunch.

45 Which sentence is grammatically correct? A. They have went to the beach. B. They have gone to the beach. C. They has went to the beach. D. They has gone to the beach.

1 point

- A They have gone to the beach.
- B They has gone to the beach.
- C They have went to the beach.
- D They has went to the beach.

46 Identify the prepositional phrase in the following sentence: They went to the beach during the summer.

1 point

- A To the beach
- B During the summer
- C They went
- D The beach

47 Which sentence correctly uses 'elicit'?

1 point

- A The loud noise elicited a reaction from the crowd.
- B She had an illicit relationship.
- C The investigator tried to illicit information.
- D The elicit drug trade was discovered.

48 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.

49 The team captain is responsible for _____ team's performance.

1 point

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

50 Identify the coordinating conjunction in the sentence: 'She likes to dance, yet she never takes lessons.'

1 point

- A to
- B yet
- C dance
- D likes

51 Which Founding Father is known for his famous 'Give me liberty, or give me death!' speech?

1 point

- A Thomas Paine
- B Samuel Adams
- C John Hancock
- D Patrick Henry

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

1 point

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

53 Who was responsible for the establishment of the United States Navy?

1 point

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

54 Which Founding Father was the first Vice President of the United States?

1 point

- A James Madison
 B Thomas Jefferson
 C Alexander Hamilton
 D John Adams

55 Which colony was originally founded by the Dutch and later taken over by the English?

1 point

- A Virginia
 B Georgia
 C New York
 D Maryland

56 Who led the rebellion in Virginia in 1676 against the colonial government?

1 point

- A Thomas Hooker
 B Nathaniel Bacon
 C William Berkeley
 D John Smith

57 What was the primary economic activity in the New England colonies?

1 point

- A Shipbuilding and fishing
 B Tobacco farming
 C Cotton plantations
 D Rice cultivation

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

1 point

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

59 Which colony was originally founded as a debtor's refuge and a buffer against Spanish Florida?

1 point

- A New Jersey
 B Delaware
 C South Carolina
 D Georgia

60 Which religion primarily uses the Torah as its sacred text?

1 point

- A Judaism
 B Islam
 C Christianity
 D Buddhism

61 Which term refers to the mutual respect and coexistence of diverse cultures within a society?

1 point

- Cultural pluralism
 Cultural imperialism
 Cultural assimilation
 Cultural isolation

62 Which of the following is the longest river in the world?

1 point

- Yangtze River
 Nile River
 Amazon River
 Mississippi River

63 Which of the following is the largest island in the world?

1 point

- Madagascar
 Borneo
 New Guinea
 Greenland

64 What is the primary focus of economic geography?

1 point

- Cultural traditions
 Political boundaries
 Economic activities
 Climate patterns

65 What is the place of worship for Muslims called?

1 point

- Mosque
 Temple
 Church
 Synagogue

66 Which trade route was used to transport goods from the Baltic Sea region?

1 point

- Royal Road
 Silk Road
 Incense Route
 Amber Road

67 Which landform is typically formed by volcanic activity and consists of a peak with a crater?

1 point

- Valley
 Volcano
 Delta
 Mesa

68 Fiscal policy involves changes in what?

1 point

- Interest rates
 Trade tariffs
 Government spending and taxation
 Money supply

69 Which economic policy tool would likely be used to combat high inflation?

1 point

- Decreasing government spending
 Increasing interest rates
 Lowering taxes
 Increasing money supply

70 Which of the following is a type of savings account?

1 point

- (A) Loan account
- (B) Credit card account
- (C) Checking account
- (D) Money market account

71 Which of the following is a personal factor affecting consumer behaviour?

1 point

- (A) Reference groups
- (B) Culture
- (C) Age
- (D) Social class

72 Which of the following is a characteristic of a market economy?

1 point

- (A) Central planning
- (B) Government control of all resources
- (C) Equal distribution of wealth
- (D) Prices determined by supply and demand

73 What does the Housing Starts indicator measure?

1 point

- (A) The total value of consumer goods sold
- (B) The number of new residential construction projects started
- (C) The unemployment rate
- (D) The rate of inflation

74 What does the Retail Sales indicator measure?

1 point

- (A) The number of new jobs created
- (B) Total sales of goods and services by retailers
- (C) Changes in the price level of consumer goods
- (D) Total value of goods and services produced

75 Which of the following is an example of political interventionism?

1 point

- (A) Imposing economic sanctions
- (B) Signing a free trade agreement
- (C) Hosting international sports events
- (D) Providing humanitarian aid

76 What is civic engagement primarily concerned with?

1 point

- (A) Shopping at local stores
- (B) Watching television
- (C) Traveling abroad
- (D) Participating in community activities

77 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

78 Which amendment states that the enumeration of certain rights in the Constitution shall not be construed to deny or disparage others retained by the people?

1 point

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

79 Who nominates justices to the Supreme Court?

1 point

- A The President
- B The Senate
- C The House of Representatives
- D The Chief Justice

80 What can individuals do to engage civically?

1 point

- A Focus only on personal goals
- B Ignore local issues
- C Stay isolated from neighbors
- D Volunteer at community events

81 Which amendment prohibits the quartering of soldiers in private homes without the owner's consent?

1 point

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

82 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

83 Which amendment gave Congress the power to levy an income tax?

1 point

- A Twenty-sixth Amendment
- B Nineteenth Amendment
- C Sixteenth Amendment
- D Twenty-first Amendment

84 Atmospheric diffraction affects which type of electromagnetic waves the most?

1 point

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

85 What state of matter does not have a definite shape but has a definite volume?

1 point

- A Liquid
- B Plasma
- C Gas
- D Solid

86 Which of the following statements is true according to Newton's Third Law?

1 point

- A Forces always act in isolation
- B For every action, there is an equal and opposite reaction
- C The acceleration of an object is proportional to the net force acting on it
- D An object will remain at rest unless acted upon

87 Which of the following describes the speed of a wave?

1 point

- (A) The distance between two consecutive crests
- (B) The height of the wave
- (C) The number of waves passing a point per second
- (D) The distance a wave travels per unit time

88 Which thermodynamic cycle is used in refrigerators and heat pumps?

1 point

- (A) Rankine Cycle
- (B) Brayton Cycle
- (C) Reversed Carnot Cycle
- (D) Carnot Cycle

89 Which state of matter can be described as ionized gas?

1 point

- (A) Liquid
- (B) Plasma
- (C) Solid
- (D) Gas

90 Which of the following best describes the Law of Conservation of Mass?

1 point

- (A) Mass can be both created and destroyed
- (B) Mass can be created but not destroyed
- (C) Mass is conserved and remains constant
- (D) Mass can be destroyed but not created

91 Which state of matter is water an example of at room temperature?

1 point

- (A) Liquid
- (B) Solid
- (C) Gas
- (D) Plasma

92 Which type of radiation involves the emission of a helium nucleus?

1 point

- (A) X-ray radiation
- (B) Beta radiation
- (C) Gamma radiation
- (D) Alpha radiation

93 What term describes the role an organism plays in its ecosystem?

1 point

- (A) Community
- (B) Niche
- (C) Biome
- (D) Habitat

94 Which organelle is responsible for photosynthesis in plant cells?

1 point

- (A) Vacuole
- (B) Lysosome
- (C) Chloroplast
- (D) Mitochondria

95 Which of the following is an example of a decomposer?

1 point

- (A) Eagle
- (B) Mushroom

Deer

Grass

96 What is the likelihood of a child inheriting a recessive trait if both parents are carriers?

1 point

A 75%

B 25%

C 0%

D 50%

97 What is the primary function of the small intestine?

1 point

A Absorbing nutrients

B Producing bile

C Storing glycogen

D Filtering blood

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

1 point

A Differential reproductive success

B Genetic drift

C Mutation

D Gene flow

99 What is the primary source of energy for most ecosystems?

1 point

A Geothermal energy

B Chemical energy

C Wind

D Solar energy

100 Which type of joint is found in the shoulder and hip, allowing for a wide range of movement?

1 point

A Saddle joint

B Ball-and-socket joint

C Hinge joint

D Pivot joint

101 What is biotechnology primarily concerned with?

1 point

A Manipulating biological organisms

B Developing software

C Studying celestial bodies

D Building mechanical devices

102 Which severe weather event is known for causing widespread destruction due to high winds and heavy rain?

1 point

A Drought

B Hurricane

C Tornado

D Blizzard

103 What causes the formation of the jet streams?

1 point

A Temperature differences between air masses

B Ocean currents

C Solar flares

D Mountain ranges

104 Which planet has the highest mountain in the solar system, Olympus Mons?

1 point

- A Venus B Earth
 C Mars D Jupiter

105 Which planet is known as Earth's twin due to its similar size and composition?

1 point

- A Mars B Venus
 C Mercury D Jupiter

106 What is the name of the phenomenon where galaxies appear to be moving away from us?

1 point

- A Redshift B Blueshift
 C Black Hole D Supernova

107 Which winds are known for blowing from east to west near the equator?

1 point

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

108 Which of the following practices can help reduce deforestation?

1 point

- A Promoting paper recycling B Increasing cattle ranching
 C Expanding urban areas D Using more fossil fuels

109 Which of the following is an abiotic component of an ecosystem?

1 point

- A Sunlight B Trees
 C Birds D Insects

110 Which space telescope was launched in 1990 to observe distant galaxies?

1 point

- A Kepler B Hubble
 C James Webb D Spitzer