1. What is the capital of France? (Difficulty: Easy)

A. Berlin

B. Madrid

C. Paris

D. Rome

Answer: C

2. Which planet is known as the Red Planet? (Difficulty: Easy)

A. Earth

B. Mars

C. Venus

D. Jupiter

Answer: B

3. What is 7 × 8? (Difficulty: Easy)

A. 54

B. 56

C. 64

D. 58

Answer: B

4. Who wrote "Romeo and Juliet"? (Difficulty: Easy)

A. Charles Dickens

B. William Shakespeare

C. Mark Twain

D. Jane Austen

Answer: B

5. What is the chemical symbol for water? (Difficulty: Easy)

A. O2

B. H2O

C. CO2

D. HO

Answer: B

6. Which organ pumps blood through the body? (Difficulty: Easy)

A. Liver

B. Lung

C. Kidney

D. Heart

Answer: D

7. Who painted the Mona Lisa? (Difficulty: Easy)

A. Vincent van Gogh

B. Pablo Picasso

C. Leonardo da Vinci

D. Claude Monet

Answer: C

8. Which language is primarily used for Android app development? (Difficulty: Medium)

A. Swift

B. Kotlin

C. Ruby

D. PHP

Answer: B

9. What is the largest ocean on Earth? (Difficulty: Easy)

A. Atlantic Ocean

B. Indian Ocean

C. Arctic Ocean

D. Pacific Ocean

Answer: D

10. What is the boiling point of water at sea level in Celsius? (Difficulty: Easy)

A. 90°C

B. 95°C

C. 100°C

D. 110°C

Answer: C

11. In computer science, what does "HTTP" stand for? (Difficulty: Medium)

A. HyperText Transfer Protocol

B. High Transfer Text Protocol

C. Hyperlink Transfer Protocol

D. HyperText Transmission Protocol

Answer: A

12. Which gas is most abundant in Earth's atmosphere? (Difficulty: Medium)

A. Oxygen

B. Nitrogen

C. Carbon dioxide

D. Argon

Answer: B

13. Who was the first President of the United States? (Difficulty: Easy)

A. Abraham Lincoln

B. Thomas Jefferson

C. George Washington

D. John Adams

Answer: C

14. What does DNA stand for? (Difficulty: Medium)

A. Deoxyribonucleic Acid

B. Deoxyribose Nucleic Acid

C. Dioxyribonucleic Acid

D. Deoxy Nucleic Acid

Answer: A

15. Which element has atomic number 6? (Difficulty: Medium)

A. Carbon

B. Oxygen

C. Nitrogen

D. Helium

Answer: A

16. What is the derivative of sin(x)? (Difficulty: Medium)

A. cos(x)

B. -sin(x)

C. -cos(x)

D. tan(x)

Answer: A

17. Which country hosted the 2016 Summer Olympics? (Difficulty: Easy)

A. China

B. Brazil

C. UK

D. Russia

Answer: B

18. What is the capital of Japan? (Difficulty: Easy)

A. Beijing

B. Seoul

C. Tokyo

D. Kyoto

Answer: C

19. In web dev, what is CSS used for? (Difficulty: Easy)

A. Structure webpages

B. Style webpages

C. Store data

D. Program logic

Answer: B

20. Who discovered penicillin? (Difficulty: Medium)

A. Marie Curie

B. Alexander Fleming

C. Louis Pasteur

D. Robert Koch

Answer: B

21. What is the value of π (pi) approximately? (Difficulty: Easy)

A. 2.14

B. 3.14

C. 4.14

D. 1.41

Answer: B

22. Which planet has the most moons (as of now)? (Difficulty: Hard)

A. Earth

B. Jupiter

C. Saturn

D. Neptune

Answer: C

23. What is the powerhouse of the cell? (Difficulty: Easy)

A. Nucleus

B. Ribosome

C. Mitochondrion

D. Golgi apparatus

Answer: C

24. In SQL, which statement is used to retrieve data? (Difficulty: Easy)

A. SELECT

B. INSERT

C. UPDATE

D. DELETE

Answer: A

25. What is 2 to the power of 10? (Difficulty: Medium)

A. 512

B. 1024

C. 2048

D. 256

Answer: B

26. Who is the author of "1984"? (Difficulty: Medium)

A. Aldous Huxley

B. George Orwell

C. J.R.R. Tolkien

D. Ernest Hemingway

Answer: B

27. The Great Barrier Reef is off the coast of which country? (Difficulty: Medium)

A. South Africa

B. Australia

C. India

D. Brazil

Answer: B

28. What does CPU stand for? (Difficulty: Easy)

A. Central Process Unit

B. Central Processing Unit

C. Computer Processing Unit

D. Central Program Unit

Answer: B

29. What is the square root of 144? (Difficulty: Easy)

A. 10

B. 11

C. 12

D. 14

Answer: C

30. In physics, what is the SI unit of force? (Difficulty: Medium)

A. Joule

B. Newton

C. Pascal

D. Watt

Answer: B

31. Who painted "Starry Night"? (Difficulty: Medium)

A. Claude Monet

B. Vincent van Gogh

C. Edvard Munch

D. Salvador Dalí

Answer: B

32. Which city is known as the Big Apple? (Difficulty: Easy)

A. Los Angeles

B. Chicago

C. New York City

D. Miami

Answer: C

33. What is the main language spoken in Brazil? (Difficulty: Easy)

A. Spanish

B. Portuguese

C. French

D. English

Answer: B

34. In chemistry, pH < 7 indicates what? (Difficulty: Medium)

A. Neutral

B. Acidic

C. Basic

D. Alkaline

Answer: B

35. Who developed the theory of relativity? (Difficulty: Medium)

A. Isaac Newton

B. Nikola Tesla

C. Albert Einstein

D. Galileo Galilei

Answer: C

36. Which instrument measures atmospheric pressure? (Difficulty: Medium)

A. Thermometer

B. Barometer

C. Hygrometer

D. Anemometer

Answer: B

37. What does JSON stand for? (Difficulty: Medium)

A. Java Standard Object Notation

B. JavaScript Object Notation

C. JavaScript Online Notation

D. Java Serialized Object Notation

Answer: B

38. What is 15% of 200? (Difficulty: Easy)

A. 20

B. 25

C. 30

D. 35

Answer: C

39. Which country is known for the pyramids at Giza? (Difficulty: Easy)

A. Mexico

B. Peru

C. Egypt

D. Sudan

Answer: C

40. In music, how many semitones are in an octave? (Difficulty: Medium)

A. 6

B. 8

C. 10

D. 12

Answer: D

41. Which scientist proposed natural selection? (Difficulty: Medium)

A. Gregor Mendel

B. Charles Darwin

C. Alfred Wallace

D. Carl Linnaeus

Answer: B

42. What does RAM stand for? (Difficulty: Easy)

A. Read Access Memory

B. Random Access Memory

C. Rapid Access Memory

D. Readable Active Memory

Answer: B

43. Which metal has the chemical symbol Fe? (Difficulty: Easy)

A. Sodium

B. Iron

C. Fluorine

D. Francium

Answer: B

44. Who wrote "Pride and Prejudice"? (Difficulty: Medium)

A. Emily Brontë

B. Jane Austen

C. Charlotte Brontë

D. Mary Shelley

Answer: B

45. What is the longest river in the world (commonly cited)? (Difficulty: Medium)

A. Amazon

B. Nile

C. Yangtze

D. Mississippi

Answer: B

46. Which programming language is primarily used for iOS app development? (Difficulty: Medium)

A. Kotlin

B. Swift

C. C#

D. Java

Answer: B

47. What is the chemical formula for table salt? (Difficulty: Easy)

A. KCl

B. NaCl

C. CaCl2

D. HCl

Answer: B

48. Which war ended in 1945? (Difficulty: Easy)

A. World War I

B. World War II

C. Korean War

D. Vietnam War

Answer: B

49. In graph theory, what is a cycle? (Difficulty: Hard)

A. A path that never repeats a vertex

B. A path that starts and ends at the same vertex without repeating edges

C. A path that repeats edges multiple times

D. A disconnected component

Answer: B

50. What is the acceleration due to gravity near Earth’s surface (approx m/s²)? (Difficulty: Medium)

A. 6.2

B. 7.8

C. 9.8

D. 11.2

Answer: C

51. Which vitamin is produced when skin is exposed to sunlight? (Difficulty: Medium)

A. Vitamin A

B. Vitamin B12

C. Vitamin C

D. Vitamin D

Answer: D

52. In economics, what does GDP stand for? (Difficulty: Medium)

A. Gross Domestic Product

B. General Domestic Product

C. Gross Domestic Percentage

D. General Demand Price

Answer: A

53. What is the smallest prime number? (Difficulty: Easy)

A. 0

B. 1

C. 2

D. 3

Answer: C

54. Which country uses the Rupee as currency and has its capital at New Delhi? (Difficulty: Easy)

A. Pakistan

B. India

C. Nepal

D. Sri Lanka

Answer: B

55. What is the hardest natural substance on Earth? (Difficulty: Easy)

A. Gold

B. Iron

C. Diamond

D. Quartz

Answer: C

56. In HTML, which tag is used for the largest heading? (Difficulty: Easy)

A. <h6>

B. <h1>

C. <head>

D. <title>

Answer: B

57. Who proposed the laws of motion? (Difficulty: Medium)

A. Galileo Galilei

B. Isaac Newton

C. Johannes Kepler

D. Albert Einstein

Answer: B

58. What is the capital city of Canada? (Difficulty: Medium)

A. Toronto

B. Ottawa

C. Vancouver

D. Montreal

Answer: B

59. Which gas do plants primarily consume during photosynthesis? (Difficulty: Easy)

A. Oxygen

B. Nitrogen

C. Carbon dioxide

D. Methane

Answer: C

60. What is the primary language used for styling web pages? (Difficulty: Easy)

A. HTML

B. CSS

C. JavaScript

D. SQL

Answer: B

61. Which mathematician is known for the theory of relativity? (Difficulty: Medium)

A. Euclid

B. Carl Gauss

C. Isaac Newton

D. Albert Einstein

Answer: D

62. What is the capital of Germany? (Difficulty: Easy)

A. Munich

B. Frankfurt

C. Berlin

D. Hamburg

Answer: C

63. Which blood type is considered the universal donor? (Difficulty: Medium)

A. A+

B. O-

C. AB+

D. B-

Answer: B

64. In Python, which keyword starts the definition of a function? (Difficulty: Easy)

A. func

B. def

C. function

D. lambda

Answer: B

65. What is the main building block of proteins? (Difficulty: Medium)

A. Fatty acids

B. Monosaccharides

C. Amino acids

D. Nucleic acids

Answer: C

66. Which U.S. state is known as the Sunshine State? (Difficulty: Easy)

A. California

B. Texas

C. Florida

D. Arizona

Answer: C

67. What is 100 in Roman numerals? (Difficulty: Easy)

A. L

B. C

C. D

D. M

Answer: B

68. Which element is a noble gas? (Difficulty: Medium)

A. Hydrogen

B. Oxygen

C. Neon

D. Chlorine

Answer: C

69. Who wrote "To Kill a Mockingbird"? (Difficulty: Medium)

A. Harper Lee

B. F. Scott Fitzgerald

C. John Steinbeck

D. Toni Morrison

Answer: A

70. In electronics, what does LED stand for? (Difficulty: Easy)

A. Light Emitting Diode

B. Light Emission Device

C. Light Energy Diode

D. Low Energy Display

Answer: A

71. What is the result of 9 - 3 × 2? (order of operations) (Difficulty: Medium)

A. 12

B. 3

C. 0

D. -3

Answer: B

72. Which country is the largest by land area? (Difficulty: Medium)

A. China

B. United States

C. Russia

D. Canada

Answer: C

73. In biology, what is homeostasis? (Difficulty: Medium)

A. Evolution of species

B. Stable internal environment

C. Cell division

D. Genetic mutation

Answer: B

74. Which instrument is used to measure temperature? (Difficulty: Easy)

A. Barometer

B. Thermometer

C. Hygrometer

D. Altimeter

Answer: B

75. Which Shakespeare play features the character Prospero? (Difficulty: Hard)

A. Hamlet

B. The Tempest

C. Macbeth

D. Othello

Answer: B

76. What is the value of 3! (3 factorial)? (Difficulty: Easy)

A. 3

B. 6

C. 9

D. 12

Answer: B

77. Which programming paradigm emphasizes objects and classes? (Difficulty: Medium)

A. Functional programming

B. Procedural programming

C. Object-oriented programming

D. Logical programming

Answer: C

78. What is Hubble primarily used to observe? (Difficulty: Medium)

A. Deep-sea life

B. Subatomic particles

C. The universe (space)

D. Weather patterns

Answer: C

79. Who was the British Prime Minister during most of World War II? (Difficulty: Medium)

A. Neville Chamberlain

B. Winston Churchill

C. Clement Attlee

D. Margaret Thatcher

Answer: B

80. Which number is a Fibonacci number? (Difficulty: Medium)

A. 14

B. 21

C. 22

D. 25

Answer: B

81. In databases, what does "ACID" stand for (one of its properties)? (Difficulty: Hard)

A. Atomicity, Consistency, Isolation, Durability

B. Atomicity, Concurrency, Integrity, Durability

C. Accuracy, Consistency, Isolation, Durability

D. Atomicity, Consistency, Indexing, Durability

Answer: A

82. Which scientist discovered the law of universal gravitation? (Difficulty: Medium)

A. Galileo Galilei

B. Isaac Newton

C. Johannes Kepler

D. Albert Einstein

Answer: B

83. What is 0.75 expressed as a fraction? (Difficulty: Easy)

A. 3/4

B. 2/3

C. 4/5

D. 7/10

Answer: A

84. Which painting is by Salvador Dalí? (Difficulty: Medium)

A. The Persistence of Memory

B. The Scream

C. Girl with a Pearl Earring

D. American Gothic

Answer: A

85. Which African country has the largest population? (Difficulty: Medium)

A. Nigeria

B. Egypt

C. South Africa

D. Kenya

Answer: A

86. In machine learning, what is "overfitting"? (Difficulty: Hard)

A. When a model is too simple

B. When a model fits training data too well and fails to generalize

C. When a model has no training data

D. When a model runs out of memory

Answer: B

87. What is Avogadro's number (approx)? (Difficulty: Hard)

A. 6.02 × 10^23

B. 3.14 × 10^8

C. 9.81 × 10^2

D. 1.6 × 10^-19

Answer: A

88. Which country is home to the city of Istanbul? (Difficulty: Easy)

A. Greece

B. Turkey

C. Bulgaria

D. Armenia

Answer: B

89. What is the process by which plants lose water vapor called? (Difficulty: Medium)

A. Translocation

B. Respiration

C. Transpiration

D. Photosynthesis

Answer: C

90. Which organelle contains genetic material in eukaryotic cells? (Difficulty: Easy)

A. Mitochondrion

B. Nucleus

C. Ribosome

D. Chloroplast

Answer: B

91. What programming construct repeats actions until a condition is false? (Difficulty: Easy)

A. If statement

B. Loop

C. Function

D. Array

Answer: B

92. What is the chemical symbol for gold? (Difficulty: Easy)

A. Au

B. Ag

C. Gd

D. Go

Answer: A

93. Which U.S. document starts with "We the People"? (Difficulty: Medium)

A. The Declaration of Independence

B. The Constitution

C. The Bill of Rights

D. The Federalist Papers

Answer: B

94. What is the formula for the area of a circle? (Difficulty: Easy)

A. 2πr

B. πr²

C. πd

D. πr/2

Answer: B

95. Which scientist is credited with peanut-based discoveries and genetics research? (Difficulty: Medium)

A. Louis Pasteur

B. Alexander Fleming

C. George Washington Carver

D. Gregor Mendel

Answer: C

96. In music notation, "piano" indicates which dynamic? (Difficulty: Medium)

A. Loud

B. Soft

C. Very loud

D. Moderate

Answer: B

97. Which protocol is used to send email? (Difficulty: Medium)

A. FTP

B. SMTP

C. HTTP

D. SSH

Answer: B

98. The study of past human activity through material remains is called? (Difficulty: Medium)

A. Sociology

B. Paleontology

C. Archaeology

D. Anthropology

Answer: C

99. What is 11 × 11? (Difficulty: Easy)

A. 111

B. 121

C. 131

D. 101

Answer: B

100. Which device converts alternating current (AC) to direct current (DC)? (Difficulty: Medium)

A. Transformer

B. Rectifier

C. Inverter

D. Oscillator

Answer: B

101. What is the most abundant element in the universe? (Difficulty: Medium)

A. Oxygen

B. Hydrogen

C. Carbon

D. Helium

Answer: B

102. Who is the author of "The Odyssey"? (Difficulty: Hard)

A. Virgil

B. Homer

C. Sophocles

D. Plato

Answer: B

103. In statistics, the mean of a dataset is the same as the: (Difficulty: Medium)

A. Mode

B. Median

C. Average

D. Range

Answer: C

104. Which condition describes high blood sugar? (Difficulty: Medium)

A. Hypoglycemia

B. Hyperglycemia

C. Anemia

D. Hypertension

Answer: B

105. In electronics, Ohm's law relates voltage (V), current (I), and resistance (R). What is the formula? (Difficulty: Medium)

A. V = I + R

B. V = I \* R

C. V = I / R

D. V = R / I

Answer: B

106. Which planet is the second closest to the Sun? (Difficulty: Medium)

A. Mercury

B. Venus

C. Earth

D. Mars

Answer: B

107. Which poet wrote "The Road Not Taken"? (Difficulty: Medium)

A. Robert Frost

B. Walt Whitman

C. Emily Dickinson

D. T.S. Eliot

Answer: A

108. In database indexing, B-tree is mainly used to optimize what? (Difficulty: Hard)

A. Network latency

B. Disk throughput

C. Search and retrieval operations

D. CPU scheduling

Answer: C

109. What is the chemical name for table sugar? (Difficulty: Hard)

A. Glucose

B. Sucrose

C. Fructose

D. Lactose

Answer: B

110. In time complexity notation, which of the following is fastest for large n? (Difficulty: Hard)

A. O(n!)

B. O(n^2)

C. O(n log n)

D. O(2^n)

Answer: C