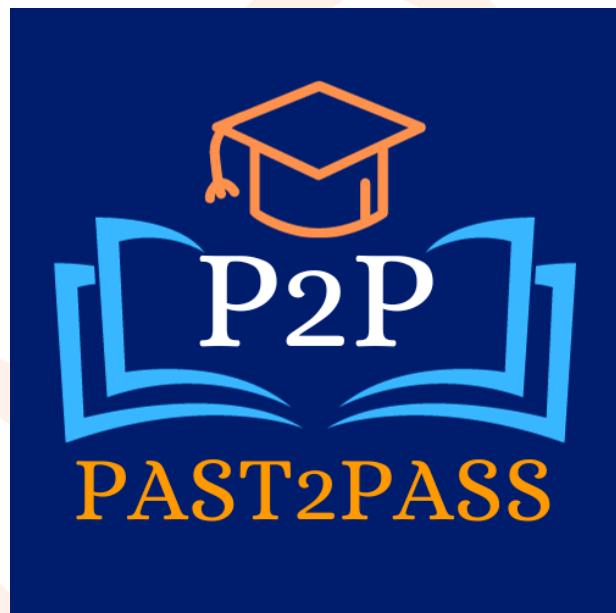


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Technical / Engineering (Oil & Gas, Mechanical, HSE) (49 Questions)

This section tests your knowledge of basic engineering principles, safety concepts, and the oil and gas industry value chain.

1. What is the term for liquid petroleum as it comes out of the ground, before it has been refined?

- A. Natural gas
- B. Crude oil
- C. Bitumen
- D. Diesel

Answer: B

2. In the oil and gas value chain, which segment involves the exploration and production of crude oil and natural gas?

- A. Downstream
- B. Midstream
- C. Upstream
- D. Pipeline

Answer: C

3. According to Ohm's Law, what is the relationship between Voltage (V), Current (I), and Resistance (R)?

- A. $V = I / R$
- B. $V = R / I$
- C. $V = I * R$
- D. $V = I + R$

Answer: C

4. A force of 100 N is applied uniformly over an area of 5 m². What is the pressure exerted?

- A. 20 Pa
- B. 95 Pa
- C. 105 Pa
- D. 500 Pa

Answer: A

5. Which of the following is a primary safety concept aimed at identifying potential hazards before they cause an accident?

- A. Incident investigation
- B. Risk assessment
- C. Emergency response

D. First aid

Answer: B

6. The acronym "HSE" stands for:

- A. Health, Safety, and Environment
- B. High Safety Equipment
- C. Hazardous Site Evaluation
- D. Health and Standard Engineering

Answer: A

7. In drilling operations, what is the name of the heavy pipe that provides weight on the drill bit?

- A. Drill collar
- B. Drill pipe
- C. Casing
- D. Kelly

Answer: A

8. What is the SI unit of force?

- A. Joule
- B. Pascal
- C. Newton
- D. Watt

Answer: C

9. The refining process that separates crude oil into different components based on boiling points is called:

- A. Cracking
- B. Fractional distillation
- C. Reforming
- D. Blending

Answer: B

10. If a system loses 500 J of heat and does 200 J of work on its surroundings, what is the change in its internal energy (ΔU)? (Using First Law of Thermodynamics: $\Delta U = Q - W$)

- A. +700 J
- B. +300 J
- C. -300 J
- D. -700 J

Answer: D

11. Which part of the oil and gas value chain involves the transportation, storage, and trading of crude oil and natural gas?

- A. Upstream
- B. Midstream
- C. Downstream
- D. Exploration

Answer: B

12. A hydraulic system uses a liquid to multiply force. This principle is based on:

- A. Pascal's Law
- B. Boyle's Law
- C. Archimedes' Principle
- D. Bernoulli's Principle

Answer: A

13. What does the acronym "PPE" stand for in a safety context?

- A. Personal Protective Equipment
- B. Public Protection Edict
- C. Pipeline Pressure Equipment
- D. Process Plant Efficiency

Answer: A

14. What is the typical unit for measuring torque?

- A. Newton-meter (N·m)
- B. Newton (N)
- C. Pascal (Pa)
- D. Joule (J)

Answer: A

15. In basic electricity, power (in Watts) is calculated as:

- A. V / I
- B. $I^2 * R$
- C. $V * R$
- D. I / R

Answer: B

16. The first law of thermodynamics is essentially a statement of the conservation of:

- A. Mass
- B. Momentum
- C. Energy

D. Entropy

Answer: C

17. Which of the following is a common type of blowout preventer (BOP) used in drilling to seal the wellbore?

- A. Christmas tree
- B. Ram preventer
- C. Derrick
- D. Mud pump

Answer: B

18. If the absolute pressure in a system is 300 kPa and the atmospheric pressure is 101.3 kPa, what is the gauge pressure?

- A. 198.7 kPa
- B. 300 kPa
- C. 401.3 kPa
- D. -198.7 kPa

Answer: A

19. The downstream sector is primarily concerned with:

- A. Exploration
- B. Drilling
- C. Refining and marketing
- D. Pipeline transport

Answer: C

20. What is the primary purpose of drilling mud in rotary drilling?

- A. To lubricate the drill bit
- B. To remove cuttings from the wellbore
- C. To maintain pressure control
- D. All of the above

Answer: D

21. Convert a pressure of 100 psi (pounds per square inch) to an approximate value in Bar. (1 Bar \approx 14.5 psi)

- A. 1.45 Bar
- B. 6.9 Bar
- C. 14.5 Bar
- D. 145 Bar

Answer: B

22. A simple machine, like a wrench, uses which principle to multiply force?

- A. Gear ratio
- B. Mechanical advantage
- C. Work input
- D. Friction

Answer: B

23. What does the acronym "LOTO" stand for in industrial safety?

- A. Load Over Torque Operation
- B. Lockout/Tagout
- C. Low Oxygen Transfer Operation
- D. Leak Off Test Operation

Answer: B

24. In fluid mechanics, which principle states that an increase in a fluid's velocity occurs simultaneously with a decrease in pressure?

- A. Pascal's Principle
- B. Archimedes' Principle
- C. Bernoulli's Principle
- D. Boyle's Law

Answer: C

25. The part of a drilling rig that supports the drilling tower is called the:

- A. Substructure
- B. Crown block
- C. Traveling block
- D. Swivel

Answer: A

26. If a 12V battery supplies a current of 3A to a circuit, what is the power consumed?

- A. 4 W
- B. 15 W
- C. 36 W
- D. 48 W

Answer: C

27. In thermodynamics, a process that occurs at constant temperature is called:

- A. Isobaric
- B. Isochoric
- C. Isothermal

D. Adiabatic

Answer: C

28. A barrel of oil (bbl) is a standard unit of volume. 1 barrel is approximately equal to how many US gallons?

- A. 12 gallons
- B. 32 gallons
- C. 42 gallons
- D. 55 gallons

Answer: C

29. What type of hazard is a frayed electrical cord?

- A. Chemical hazard
- B. Biological hazard
- C. Physical hazard
- D. Ergonomic hazard

Answer: C

30. The force that opposes the motion of an object when it slides against a surface is called:

- A. Gravity
- B. Inertia
- C. Friction
- D. Tension

Answer: C

31. What is the primary function of a "Christmas tree" in oil and gas production?

- A. To drill the well
- B. To control the flow of oil or gas from the well
- C. To separate oil from gas
- D. To store crude oil

Answer: B

32. The second law of thermodynamics states that the total _____ of an isolated system can never decrease over time.

- A. Energy
- B. Enthalpy
- C. Entropy
- D. Temperature

Answer: C

33. A geological formation containing oil or gas is called a:

- A. Reservoir
- B. Aquifer
- C. Seismic trap
- D. Refinery

Answer: A

34. If the current in a circuit increases, what happens to the resistance, assuming voltage remains constant?

- A. It increases
- B. It decreases
- C. It remains the same
- D. It doubles

Answer: B

35. What is the primary purpose of a Permit to Work (PTW) system?

- A. To authorize payment to workers
- B. To control high-risk activities and ensure safety
- C. To track worker attendance
- D. To order spare parts

Answer: B

36. An object weighs 100 N on Earth. What is its approximate mass? (Assume $g = 10 \text{ m/s}^2$)

- A. 10 kg
- B. 100 kg
- C. 1000 kg
- D. 10 g

Answer: A

37. In fluid power systems, a pump converts mechanical energy into:

- A. Electrical energy
- B. Thermal energy
- C. Hydraulic energy
- D. Kinetic energy only

Answer: C

38. Natural gas primarily consists of which compound?

- A. Ethane
- B. Propane
- C. Butane

D. Methane

Answer: D

39. A 5 kW electrical motor runs for 2 hours. How much electrical energy does it consume in kilowatt-hours (kWh)?

A. 2.5 kWh

B. 5 kWh

C. 7 kWh

D. 10 kWh

Answer: D

40. What is the first thing you should do upon discovering a fire in a workplace?

A. Fight the fire with an extinguisher

B. Gather your personal belongings

C. Raise the alarm

D. Call your supervisor

Answer: C

41. Torque can be calculated by multiplying force by:

A. Mass

B. Velocity

C. Distance from the pivot point

D. Acceleration

Answer: C

42. The process of converting long-chain hydrocarbons into shorter, more valuable ones is called:

A. Distillation

B. Cracking

C. Alkylation

D. Treating

Answer: B

43. According to Boyle's Law, for a fixed mass of gas at constant temperature, pressure is:

A. Directly proportional to volume

B. Inversely proportional to volume

C. Independent of volume

D. Equal to volume

Answer: B

44. A material that allows electric current to flow through it easily is called a:

- A. Insulator
- B. Conductor
- C. Semiconductor
- D. Resistor

Answer: B

45. Which of the following is a common method for exploring for oil and gas?

- A. Seismic surveys
- B. Magnetic resonance imaging (MRI)
- C. Core analysis of concrete
- D. Weather forecasting

Answer: A

46. What does the HSE concept "ALARP" stand for?

- A. As Low As Reasonably Practicable
- B. Always Look for Associated Risks Properly
- C. A Legal Aspect of Risk Prevention
- D. Average Level of Accident Risk Profile

Answer: A

47. A 50 kg mass is lifted vertically at a constant speed to a height of 3 meters. The work done is approximately: ($g=10 \text{ m/s}^2$)

- A. 150 J
- B. 500 J
- C. 1500 J
- D. 5000 J

Answer: C

48. In the context of drilling, what is a "kick"?

- A. The start of the drilling process
- B. An unwanted influx of formation fluids into the wellbore
- C. The tool used to rotate the drill string
- D. A type of drilling rig

Answer: B

49. A transformer is used to:

- A. Change AC voltage levels
- B. Change DC voltage levels
- C. Generate electricity

D. Store electrical charge

Answer: A

Quantitative / Numerical Reasoning (50 Questions)

50. A car travels at a speed of 60 km/h. How long will it take to cover a distance of 270 km?

- A. 4 hours
- B. 4.5 hours
- C. 5 hours
- D. 5.5 hours

Answer: B

51. If 15 workers can build a wall in 20 days, how many workers are needed to build the same wall in 12 days?

- A. 20 workers
- B. 25 workers
- C. 28 workers
- D. 30 workers

Answer: B

52. What is 20% of 450?

- A. 70
- B. 80
- C. 90
- D. 100

Answer: C

53. A shirt is bought for \$40 and sold for \$50. What is the profit percentage?

- A. 20%
- B. 25%
- C. 30%
- D. 10%

Answer: B

54. Find the average of the following numbers: 12, 15, 23, 10, 20.

- A. 15
- B. 16
- C. 17
- D. 18

Answer: B

55. If $x + 5 = 12$, then what is the value of $2x - 3$?

- A. 10
- B. 11
- C. 12
- D. 14

Answer: B

56. The ratio of boys to girls in a class is 3:2. If there are 30 boys, how many students are there in total?

- A. 40
- B. 45
- C. 50
- D. 60

Answer: C

57. Solve for y: $3(y - 4) = 15$.

- A. 7
- B. 8
- C. 9
- D. 10

Answer: C

58. A man spends 75% of his salary. If he saves \$200, what is his salary?

- A. \$600
- B. \$800
- C. \$900
- D. \$1000

Answer: B

59. What is the simple interest on \$1000 for 2 years at a rate of 5% per annum?

- A. \$50
- B. \$100
- C. \$150
- D. \$200

Answer: B

60. If a train 150 meters long passes a pole in 15 seconds, what is its speed in km/h?

- A. 30 km/h
- B. 36 km/h
- C. 40 km/h

D. 45 km/h

Answer: B

61. Complete the series: 2, 6, 12, 20, ?

A. 28

B. 30

C. 32

D. 36

Answer: B

62. A shopkeeper gives a 10% discount on a \$50 item. What is the selling price?

A. \$40

B. \$42

C. \$45

D. \$48

Answer: C

63. What is the value of 5! (5 factorial)?

A. 60

B. 120

C. 25

D. 15

Answer: B

64. If 0.75 is written as a fraction in its simplest form, it is:

A. 1/4

B. 1/2

C. 2/3

D. 3/4

Answer: D

65. Two numbers are in the ratio 4:5. Their sum is 180. Find the smaller number.

A. 60

B. 80

C. 90

D. 100

Answer: B

66. The perimeter of a square is 48 cm. What is its area?

A. 96 cm²

B. 124 cm²

C. 144 cm^2

D. 169 cm^2

Answer: C

67. A tank can be filled by pipe A in 4 hours and by pipe B in 6 hours. How long will it take to fill the tank if both pipes are opened together?

A. 2 hours

B. 2.4 hours

C. 2.8 hours

D. 3 hours

Answer: B

68. What is the next number in the sequence? 1, 4, 9, 16, ?

A. 20

B. 24

C. 25

D. 36

Answer: C

69. If $a:b = 2:3$ and $b:c = 4:5$, then $a:c = ?$

A. 8:12

B. 8:15

C. 6:12

D. 15:8

Answer: B

70. A book was sold for \$27.50 with a profit of 10%. If it were sold for \$25, what would have been the profit or loss percentage?

A. 5% profit

B. 5% loss

C. 0% (no profit/loss)

D. 2.5% loss

Answer: C

71. 0.125 expressed as a percentage is:

A. 1.25%

B. 12.5%

C. 125%

D. 0.125%

Answer: B

72. Convert 5 kilometres into metres.

- A. 50 metres
- B. 500 metres
- C. 5000 metres
- D. 50,000 metres

Answer: C

73. If the average of three numbers is 25 and two of the numbers are 20 and 30, what is the third number?

- A. 20
- B. 25
- C. 30
- D. 35

Answer: B

74. What is the least common multiple (LCM) of 12 and 18?

- A. 24
- B. 36
- C. 48
- D. 72

Answer: B

75. A number increased by 20% gives 60. What is the number?

- A. 40
- B. 48
- C. 50
- D. 55

Answer: C

76. $\frac{2}{5}$ of $\frac{3}{4}$ of a number is 30. What is the number?

- A. 100
- B. 150
- C. 200
- D. 250

Answer: A

77. A man walks 3 km north, then 4 km east. How far is he from his starting point?

- A. 4 km
- B. 5 km
- C. 6 km

D. 7 km

Answer: B

78. What is 15% of 200 added to 10% of 150?

- A. 40
- B. 45
- C. 50
- D. 55

Answer: B

79. Solve: $(2^3 * 2^4) / 2^5 = ?$

- A. 2
- B. 4
- C. 8
- D. 16

Answer: B

80. If 5 kg of apples cost \$12.50, what is the cost of 8 kg of apples?

- A. \$18.00
- B. \$20.00
- C. \$22.00
- D. \$25.00

Answer: B

81. A pipe can fill a swimming pool in 10 hours. If the pool has a leak that can empty it in 15 hours, how long will it take to fill the pool if both the pipe and leak are open?

- A. 20 hours
- B. 25 hours
- C. 30 hours
- D. 35 hours

Answer: C

82. The sum of ages of a father and his son is 50 years. Five years ago, the father was five times as old as his son. Find the present age of the son.

- A. 8 years
- B. 10 years
- C. 12 years
- D. 15 years

Answer: B

83. What is the square root of 0.09?

- A. 0.3
- B. 0.03
- C. 0.9
- D. 0.09

Answer: A

84. A train 300 meters long is running at a speed of 72 km/h. How long will it take to cross a bridge 200 meters long?

- A. 20 seconds
- B. 25 seconds
- C. 30 seconds
- D. 35 seconds

Answer: B

85. A shopkeeper bought 100 eggs for \$100. 10 eggs were broken. He sold the remaining eggs at \$1.20 each. What is his profit or loss percentage?

- A. 8% profit
- B. 8% loss
- C. 10% profit
- D. 10% loss

Answer: A

86. If the simple interest on a sum of money for 2 years at 5% per annum is \$50, what is the compound interest on the same sum at the same rate for the same period?

- A. \$51.25
- B. \$52.50
- C. \$50
- D. \$55

Answer: A

87. Find the value of x: $2x/3 + 1 = x/2 - 2$.

- A. -18
- B. -12
- C. 12
- D. 18

Answer: A

88. If 60% of students in a school are boys and the number of girls is 320, find the total number of students.

- A. 480
- B. 640
- C. 800
- D. 960

Answer: C

89. A man can do a piece of work in 5 days, and a boy can do it in 15 days. How long will they take to do the work together?

- A. 3.5 days
- B. 3.75 days
- C. 4 days
- D. 4.25 days

Answer: B

90. A rectangular field is 20 m long and 15 m wide. Find the cost of fencing it at \$25 per metre.

- A. \$1500
- B. \$1750
- C. \$2000
- D. \$2250

Answer: B

91. $0.6 + 0.66 + 0.066 = ?$

- A. 1.2
- B. 1.226
- C. 1.326
- D. 1.426

Answer: C

92. The difference between a number and its two-fifth is 30. What is the number?

- A. 40
- B. 50
- C. 60
- D. 75

Answer: B

93. If a person walks at 14 km/h instead of 10 km/h, he would have walked 20 km more. What is the actual distance travelled by him?

- A. 40 km
- B. 45 km
- C. 50 km

D. 55 km

Answer: C

94. What will be the next term in the series: 5, 7, 11, 17, 25, ?

A. 33

B. 34

C. 35

D. 36

Answer: C

95. In a mixture of 60 litres, the ratio of milk to water is 2:1. How much more water must be added to make the ratio 1:2?

A. 40 litres

B. 50 litres

C. 60 litres

D. 70 litres

Answer: C

96. The cost of 15 pens is \$60. What is the cost of 8 such pens?

A. \$28

B. \$30

C. \$32

D. \$36

Answer: C

97. 12.5% of 192 = ?

A. 12

B. 18

C. 24

D. 30

Answer: C

98. The sum of three consecutive even numbers is 48. What is the smallest of these numbers?

A. 12

B. 14

C. 16

D. 18

Answer: B

99. A student has to secure 40% marks to pass. He gets 150 marks and fails by 30 marks. What are the maximum marks?

- A. 400
- B. 425
- C. 450
- D. 500

Answer: C

Verbal Reasoning (50 Questions)

100. Choose the word that is most nearly the SAME in meaning to the word "BENEVOLENT".

- A. Malevolent
- B. Kind
- C. Greedy
- D. Hostile

Answer: B

101. Choose the word that is most nearly the OPPOSITE in meaning to the word "TRANQUIL".

- A. Peaceful
- B. Calm
- C. Agitated
- D. Serene

Answer: C

102. Complete the following sentence: Neither the manager nor his assistants ____ present at the meeting.

- A. was
- B. were
- C. is
- D. has been

Answer: B

103. Read the passage and answer: "Some people argue that technology isolates us, as we spend more time on our devices than with real people. However, technology also connects us with friends and family across the globe, enabling instant communication that was impossible before." The main purpose of this passage is to:

- A. Argue that technology isolates us.
- B. Argue that technology connects us.
- C. Present both sides of an argument about technology.
- D. Praise the invention of technology.

Answer: C

104. "To beat around the bush" means:

- A. To engage in physical activity
- B. To avoid getting to the point
- C. To be very direct
- D. To make a mistake

Answer: B

105. Find the correctly spelt word:

- A. Accomodate
- B. Acommodate
- C. Accommodate
- D. Acomodate

Answer: C

106. Select the pair that best expresses a relationship similar to "Doctor : Hospital".

- A. Teacher : School
- B. Student : Library
- C. Patient : Medicine
- D. Lawyer : Courtroom

Answer: A

107. In the following question, choose the word which best fills the blank: The new evidence presented in court served to _____ the witness's earlier testimony.

- A. Collaborate
- B. Corroborate
- C. Correlate
- D. Collate

Answer: B

108. Which of the following sentences is grammatically correct?

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

Answer: C

109. Read the statement and decide which of the given assumptions is implicit. Statement: "If you are a citizen, you have the right to vote." Assumptions: (I) All citizens have the right to vote. (II) Some non-citizens may also have the right to vote.

- A. Only assumption I is implicit.

- B. Only assumption II is implicit.
- C. Both I and II are implicit.
- D. Neither I nor II is implicit.

Answer: A

110. Choose the word that is most nearly the SAME in meaning to "FLOURISH".

- A. Wither
- B. Thrive
- C. Diminish
- D. Hinder

Answer: B

111. Choose the word that is most nearly the OPPOSITE in meaning to "ABUNDANT".

- A. Plentiful
- B. Ample
- C. Scarce
- D. Copious

Answer: C

112. Rearrange the following words to form a meaningful sentence: 1. are 2. playing 3. children 4. the 5. park 6. in

- A. 3, 2, 1, 4, 6, 5
- B. 3, 1, 2, 4, 6, 5
- C. 4, 3, 1, 2, 6, 5
- D. 4, 6, 5, 3, 1, 2

Answer: B

113. Fill in the blank with the correct conjunction: He studied hard, _____ he failed the exam.

- A. so
- B. because
- C. but
- D. and

Answer: C

114. Which of the following is an example of a compound sentence?

- A. She ran quickly.
- B. The dog barked and the cat ran away.
- C. Although it was raining, we went out.
- D. The tall, dark, and handsome man.

Answer: B

115. "Her silence spoke volumes." This sentence uses which literary device?

- A. Simile
- B. Metaphor
- C. Personification
- D. Alliteration

Answer: B

116. What is the plural form of "phenomenon"?

- A. Phenomenons
- B. Phenomeni
- C. Phenomena
- D. Phenomenae

Answer: C

117. Choose the antonym of "EPHEMERAL".

- A. Temporary
- B. Brief
- C. Eternal
- D. Fleeting

Answer: C

118. Find the correctly spelt word:

- A. Embarras
- B. Embarrass
- C. Embarass
- D. Embarris

Answer: B

119. Read the passage and answer: "The CEO's decision to step down came as a surprise to the industry, given the company's recent record profits. However, insiders suggest that personal reasons, rather than professional performance, were the primary motivator for his departure." Why did the CEO step down?

- A. Because the company was not performing well.
- B. Because of pressure from the industry.
- C. Primarily due to personal reasons.
- D. He was forced out by insiders.

Answer: C

120. Complete the analogy: Book is to Chapter as Play is to _____.

- A. Theater

- B. Actor
- C. Scene
- D. Director

Answer: C

121. Identify the part of the sentence that has an error: (A) The team of researchers / (B) are preparing / (C) their final report / (D) No error.

- A. A
- B. B
- C. C
- D. D

Answer: B

122. Choose the word which best expresses the meaning of "MITIGATE".

- A. Lessen
- B. Increase
- C. Argue
- D. Intensify

Answer: A

123. Select the word that is opposite in meaning to "DIFFIDENT".

- A. Shy
- B. Bold
- C. Timid
- D. Reserved

Answer: B

124. Which of the following is an antonym for "ENIGMATIC"?

- A. Mysterious
- B. Puzzling
- C. Clear
- D. Ambiguous

Answer: C

125. Fill in the blank with the correct preposition: He is interested _____ learning French.

- A. for
- B. on
- C. at
- D. in

Answer: D

126. Identify the type of sentence: "What a beautiful painting this is!"

- A. Declarative
- B. Interrogative
- C. Imperative
- D. Exclamatory

Answer: D

127. Select the correctly punctuated sentence:

- A. "I'm coming home late," she said.
- B. "I'm coming home late", she said.
- C. "I'm coming home late" she said.
- D. "I'm coming home late," She said.

Answer: A

128. "His argument was full of loopholes." The word "loopholes" here means:

- A. Strong points
- B. Weaknesses or flaws
- C. Small windows
- D. New ideas

Answer: B

129. Choose the synonym of "MUNDANE".

- A. Extraordinary
- B. Rare
- C. Commonplace
- D. Unique

Answer: C

130. Complete the sentence with the correct form of the verb: By next year, I _____ my degree.

- A. will complete
- B. will have completed
- C. completed
- D. have completed

Answer: B

131. Which word is the odd one out?

- A. Apple
- B. Mango
- C. Banana

D. Carrot

Answer: D

132. Select the most appropriate meaning of the idiom "To hit the nail on the head".

- A. To be exactly right
- B. To damage something
- C. To work hard
- D. To cause an accident

Answer: A

133. Choose the pair that best expresses a relationship similar to "Poverty : Hunger".

- A. Money : Wealth
- B. Disease : Medicine
- C. Rain : Flood
- D. Food : Nutrition

Answer: C

134. In the following question, choose the word opposite in meaning to the word in capitals:

CAPRICIOUS

- A. Whimsical
- B. Fickle
- C. Constant
- D. Erratic

Answer: C

135. Find the correctly spelt word:

- A. Privelege
- B. Priviledge
- C. Privilige
- D. Privilege

Answer: D

136. Read the statement and decide which conclusion(s) logically follow(s). Statements: All flowers are beautiful. Some beautiful things are roses. Conclusions: (I) Some flowers are roses. (II) All roses are beautiful.

- A. Only I follows
- B. Only II follows
- C. Both I and II follow
- D. Neither I nor II follows

Answer: D

137. Fill in the blank: The jury _____ divided in its opinion.

- A. was
- B. were
- C. have been
- D. are

Answer: A

138. Choose the word that best defines the given phrase: "A person who looks at the bright side of things"

- A. Pessimist
- B. Optimist
- C. Realist
- D. Idealist

Answer: B

139. Select the word which is the synonym of "RESILIENT".

- A. Weak
- B. Fragile
- C. Tough
- D. Sensitive

Answer: C

General Aptitude & Logical Reasoning (50 Questions)

140. Complete the series: 3, 6, 11, 18, 27, ?

- A. 36
- B. 37
- C. 38
- D. 39

Answer: C

****141. If 'HIDE' is coded as '19-23-7-11' and 'CAGE' is coded as '5-2-17-11', then what is the code for 'HIGH'? ****

- A. 17-19-13-17
- B. 19-23-17-19
- C. 13-3-1-2
- D. 5-17-1-2

Answer: B

142. Find the missing number in the series: 2, 6, 12, 20, ?, 42.

- A. 28

- B. 30
- C. 32
- D. 36

Answer: B

143. If A = 1, B = 2, then the value of Z + A - P is?

- A. 17
- B. 18
- C. 26
- D. 16

Answer: A

144. Pointing to a photograph, a man said, "I have no brothers or sisters, but that man's father is my father's son." Whose photograph was it?

- A. His son's
- B. His father's
- C. His nephew's
- D. His own

Answer: A

145. Which word does NOT belong with the others?

- A. Inch
- B. Foot
- C. Yard
- D. Quart

Answer: D

146. Choose the figure which is different from the others. (Assume typical shapes: Circle, Square, Triangle, Rectangle - all regular except one)

- A. Circle
- B. Square
- C. Triangle
- D. Rectangle

Answer: A

147. John is taller than Peter, and Peter is shorter than Sam. Sam is taller than John. Who is the shortest?

- A. John
- B. Peter
- C. Sam

D. Cannot be determined

Answer: B

148. Find the next number in the sequence: 1, 1, 2, 3, 5, 8, ?

- A. 10
- B. 12
- C. 13
- D. 15

Answer: C

149. If all Wugs are Tugs, and some Tugs are Yugs, then which of the following must be true?

- A. All Wugs are Yugs.
- B. Some Wugs are Yugs.
- C. No Wug is a Yug.
- D. Cannot say for sure.

Answer: D

150. A clock shows the time as 3:00. What is the angle between the hour and minute hands?

- A. 60 degrees
- B. 75 degrees
- C. 90 degrees
- D. 100 degrees

Answer: C

151. How many sides does a pentagon have?

- A. 4
- B. 5
- C. 6
- D. 7

Answer: B

152. If 'FISH' is written as 'GRJI' in a code, how would 'BIRD' be written?

- A. CJSE
- B. CJSF
- C. CKSE
- D. CJTE

Answer: A

153. Which number should come next in the pattern? 64, 32, 16, 8, ?

- A. 0
- B. 2

C. 4

D. 6

Answer: C

154. Arrange the words in a logical sequence: 1. Seed, 2. Plant, 3. Flower, 4. Fruit, 5. Tree.

A. 1,2,3,4,5

B. 1,2,5,3,4

C. 1,2,3,5,4

D. 1,2,5,4,3

Answer: B

155. Which one is different from the others?

A. Copper

B. Iron

C. Aluminium

D. Wood

Answer: D

156. If you rearrange the letters "MANGERY", you would have the name of a:

A. Ocean

B. Country

C. State

D. City

Answer: D (Germany)

157. In a row of 40 children, A is 15th from the left, and B is 20th from the right. How many children are between A and B?

A. 5

B. 6

C. 7

D. 8

Answer: A

158. A father is three times as old as his son. In 10 years, he will be twice as old. How old is the son now?

A. 5

B. 8

C. 10

D. 12

Answer: C

159. Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

- A. 22
- B. 24
- C. 25
- D. 26

Answer: C

160. A plane is flying west. It makes a 90-degree turn to its right. Which direction is it now flying?

- A. North
- B. South
- C. East
- D. West

Answer: A

161. Choose the word which is least like the others.

- A. Lion
- B. Tiger
- C. Leopard
- D. Elephant

Answer: D

162. Find the missing term: 2, 5, 10, 17, 26, ?

- A. 35
- B. 36
- C. 37
- D. 38

Answer: C

163. If '+' means '×', 'x' means '−', '−' means '÷', and '÷' means '+', then $15 \times 5 - 5 \div 5 + 5 = ?$

- A. 0
- B. 5
- C. 10
- D. 15

Answer: A

164. How many months have 31 days in a normal year?

- A. 5
- B. 6
- C. 7

D. 8

Answer: C

165. Find the odd one out:

- A. Triangle
- B. Square
- C. Circle
- D. Rectangle

Answer: C

166. If the day after tomorrow is Friday, what day was yesterday?

- A. Sunday
- B. Monday
- C. Tuesday
- D. Wednesday

Answer: B

167. A man's present age is two-fifths of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother now?

- A. 40
- B. 45
- C. 50
- D. 55

Answer: A

168. In a code, ROAD is written as URDG. How is SWAN written in that code?

- A. VZDQ
- B. VXDQ
- C. VZCQ
- D. VZDP

Answer: A

169. Which of the following fractions is the largest?

- A. $2/3$
- B. $3/4$
- C. $4/5$
- D. $5/6$

Answer: D

170. Find the missing number: 7, 11, 19, 35, ?

- A. 56

- B. 59
- C. 63
- D. 67

Answer: D

171. Deepak is brother of Ravi. Rekha is sister of Manoj. Ravi is son of Rekha. How is Manoj related to Deepak?

- A. Brother
- B. Father
- C. Uncle
- D. Grandfather

Answer: C

172. Select the option that is related to the third term in the same way as the second is related to the first. AC : BD :: DF : ?

- A. EG
- B. EH
- C. FH
- D. FI

Answer: B

173. A square is related to a cube in the same way as a circle is related to a ...?

- A. Sphere
- B. Cylinder
- C. Cone
- D. Circumference

Answer: A

174. If a pizza is cut into 8 equal slices, and you eat 3 slices, what fraction of the pizza is left?

- A. 3/8
- B. 5/8
- C. 1/2
- D. 1/4

Answer: B

175. Which number is the odd one out? 441, 361, 289, 169, 125

- A. 441
- B. 361
- C. 289

D. 125

Answer: D

176. Introducing a girl, a man says, "Her mother's only daughter is my mother." How is the man related to the girl?

- A. Brother
- B. Father
- C. Uncle
- D. Son

Answer: B

177. Find the next term in the series: AZ, CX, EV, GT, ?

- A. IR
- B. IS
- C. HP
- D. IQ

Answer: A

178. In a certain code, 'il be pe' means 'roses are blue', 'sik hee' means 'red flowers' and 'pee mit hee' means 'flowers are vegetables'. What is the code for 'are'?

- A. il
- B. pe
- C. sik
- D. hee

Answer: B

179. A train travels 120 km in 2 hours and then 180 km in 3 hours. What is its average speed for the entire journey?

- A. 55 km/h
- B. 60 km/h
- C. 65 km/h
- D. 70 km/h

Answer: B

180. If the radius of a circle is increased by 10%, by what percentage is its area increased?

- A. 10%
- B. 20%
- C. 21%
- D. 25%

Answer: C

181. What time will it be 3 hours 40 minutes after 9:50 AM?

- A. 12:30 PM
- B. 1:20 PM
- C. 1:30 PM
- D. 2:20 PM

Answer: C

182. A bag contains 2 red, 3 green, and 5 blue marbles. What is the probability of drawing a green marble at random?

- A. $1/5$
- B. $2/5$
- C. $3/10$
- D. $1/2$

Answer: C

183. The ages of A and B are in the ratio 5:7. Four years from now, the ratio of their ages will be 3:4. Find the present age of A.

- A. 10 years
- B. 15 years
- C. 20 years
- D. 25 years

Answer: C

184. If a number is added to its square, the result is 90. Find the number.

- A. 7
- B. 8
- C. 9
- D. 10

Answer: C

185. A man spends $1/3$ of his salary on rent, $1/4$ on food, and $1/5$ on other expenses. He saves the rest. What fraction of his salary does he save?

- A. $13/60$
- B. $17/60$
- C. $23/60$
- D. $47/60$

Answer: A

186. Find the compound interest on \$5000 for 2 years at 4% per annum.

- A. \$400

- B. \$404
- C. \$408
- D. \$412

Answer: C

187. The value of $5 \div 5 \times 5$ of 5 is?

- A. 1
- B. 5
- C. 25
- D. 125

Answer: C

188. A car consumes 8 litres of petrol to cover a distance of 120 km. How many litres of petrol will it need to cover a distance of 450 km?

- A. 25 litres
- B. 30 litres
- C. 35 litres
- D. 40 litres

Answer: B

189. Which of the following is the smallest?

- A. $1/2$
- B. $1/3$
- C. $1/4$
- D. $1/5$

Answer: D

Basic ICT Skills (11 Questions)

190. What does the acronym "CPU" stand for?

- A. Central Processing Unit
- B. Computer Personal Unit
- C. Central Power Utility
- D. Core Performance Utility

Answer: A

191. Which of the following is an example of an operating system?

- A. Microsoft Word
- B. Windows 11
- C. Google Chrome

D. Adobe Photoshop

Answer: B

192. What is the primary function of a router in a network?

- A. To store data permanently
- B. To display images on a monitor
- C. To direct data traffic between different networks
- D. To process user inputs

Answer: C

193. In Microsoft Excel, a cell is identified by its:

- A. Row number only
- B. Column letter only
- C. Column letter and row number (e.g., A1)
- D. Cell content

Answer: C

194. What does "RAM" stand for?

- A. Readily Available Memory
- B. Random Access Memory
- C. Read Access Memory
- D. Rapid Application Module

Answer: B

195. Which of the following is a web browser?

- A. Microsoft Windows
- B. Google Chrome
- C. Microsoft Office
- D. Adobe Reader

Answer: B

196. What is the purpose of an antivirus software?

- A. To increase the computer's processing speed
- B. To create documents and spreadsheets
- C. To detect and remove malicious software
- D. To manage internet connectivity

Answer: C

197. The "Cloud" in computing refers to:

- A. A physical server in a data center
- B. The weather forecast application

- C. Storing and accessing data over the internet
- D. A type of external hard drive

Answer: C

198. What does "URL" stand for?

- A. Universal Resource Locator
- B. Uniform Research Locator
- C. United Reference Library
- D. Uniform Resource Locator

Answer: D

199. In Microsoft Word, the feature that checks for spelling and grammar errors is found under which tab?

- A. Home
- B. Insert
- C. Design
- D. Review

Answer: D

200. Which key is used to permanently delete a file (bypassing the Recycle Bin) in Windows?

- A. Delete
- B. Ctrl + Delete
- C. Shift + Delete
- D. Alt + Delete

Answer: C