2023

IREL (India) Limited Exam 10 Dec (Trainee (Geologist/Petrologist)



Join to social media -

- TELEGRAM <u>t.me/opengeology1</u>
- INSTAGRAM <u>www.instagram.com/opengeology1/</u>
- WEBSITE www.opengeology.in/
- WHATSAPP https://whatsapp.com/channel/0029Va7KUjkFHWq4

Q.1. The energy possessed by an object due to its motion is called ______ energy.

- A. Potential
- B. Kinetic
- C. Mechanica
- D. Thermal

Q.2. What happens when dilute hydrochloric acid is added to iron fillings?

- A. Hydrogen gas and iron chloride are produced.
- B. Chlorine gas and iron hydroxide are produced.
- C. No reaction takes place.
- D. Iron, salt and water are produced.

Q.3. A solution turns red litmus blue; its pH is likely to be

- A. 1
- **B**. 4
- C. 5
- D. 10

Q.4. Which one of the following types of medicines is used for treating indigestion?

- A. Antibiotic
- B. Analgesic
- C. Antacid
- D. Antiseptic

Q.5. An element reacts with oxygen to give a compound with a high melting point. This compound is also soluble in water. The element is likely to be

- A. Calcium.
- B. Carbon.
- C. Silicon
- D. Iron.

Q.6. Ethane, with the molecular formula C H has _____ covalent bonds.

- A. 6
- B. 7
- C. 8
- D. 9

Q.7. The image formed by a concave mirror is observed to be virtual, erect and larger than the object. Where can be the position of the object?

- A. Between the principal focus and the centre of curvature
- B. At the centre of curvature
- C. Beyond the centre of curvature
- D. Between the pole of the mirror and its principal focus

Q.8. A piece of wire of resistance R is cut into five equal parts. These parts are then connected in parallel. If the equivalent resistance of this combination is R', then the ratio R/R' is –

A. 1/25

B. 1/5

C. 5

D. 25

Q.9. Which of the following terms does not represent electrical power in a circuit?

- A. I^2R
- B. IR^2
- C. VI
- D. V^2/R

Q.10. Which of the following correctly describes the magnetic field near a long straight wire?

- A. The field consists of straight lines perpendicular to the wire
- B. The field consists of straight lines parallel to the wire
- C. The field consists of radial lines originating from the wire
- D. The field consists of concentric circles centred on the wire

Q.11. At the time of short circuit, the current in the circuit

- A. reduces substantially
- B. does not change
- C. increases heavily
- D. vary continuously

Q.12. The International System of Units (SI) based on _____ base units is at present internationally accepted unit system and is widely used throughout the world.

- A. Five
- B. Six
- C. Seven
- D. Eight

Q.13. In which of the following examples of motion, can the body be considered approximately a point object?

- A. A railway carriage moving without jerks between two stations
- B. A tumbling beaker that has slipped off the edge of a table
- C. A spinning cricket ball that turns sharply on hitting the ground
- D. None of these

Q.14. A vector quantity is a quantity that

- A. has both a magnitude and a direction
- B. obeys the triangle law of addition
- C. obeys the parallelogram law of addition
- D. All these

Q.15. The time of flight of a projectile depends on

- A. Initial velocity
- B. Angle of projection
- C. Acceleration due to gravity
- D. All these

Q.16. The angle of incidence is equal to the angle of reflection according to

- A. Huygens' principle
- B. Snell's law
- C. Law of reflection
- D. Fermat's principle

Q.17. The substance that is adsorbed is known as

- A. Absorbite
- B. Adsorbent
- C. Absorsent
- D. None of these

Q.18. The strength of the magnetic field inside a solenoid can be increased by

- A. inserting an iron core inside the solenoid
- B. increasing the number of turns in the solenoid
- C. decreasing the number of turns in the solenoid
- D. All these

Q.19. The process of converting waste materials into useful energy is known as

- A. Tidal energy
- B. Waste-to-energy
- C. Geothermal energy
- D. None of these

Q.20. The conservation of angular momentum states that the total angular momentum of a system remains constant

- A. regardless of external or internal torques acting on the system
- B. only if there are no external torques acting on the system
- C. only if there are no internal torques acting on the system
- D. None of these

Q.21. If photoelectric effect is not seen with the ultraviolet radiations in a given metal, photo electrons may be emitted with the

- A. visible light
- B. X-rays
- C. infrared waves

D. radio waves

Q.22. Electric dipole moment is a

- A. dimensionless quantity
- B. tensor
- C. scalar quantity
- D. vector quantity

Q.23. The maximum frictional force, which comes in to play, when a body just begins to slide over the surface of the other body, is known as

- A. limiting friction
- B. static friction
- C. dynamic friction
- D. coefficient of friction

Q.24. The magnetism of a magnet is due to

- A. spin motion of electrons
- B. the Earth
- C. cosmic rays
- D. pressure of big magnet inside the Earth

Q.25. In R-C circuit, when charge on the plate of the capacitor is increasing, the energy obtain from the source is stored in

- A. electric field
- B. gravitational field
- C. magnetic field
- D. None of these

Q.26. In order to completely specify angular displacement by a vector, it must fix

- A. magnitude of angular displacement
- B. direction of the axis of rotation
- C. sense of angular displacement
- D. All these

Q.27. Two plates are 10 cm apart and the potential difference between them is 20V. The electric field between the plates is

- A. 0.5 V/m
- B. 20 V/m
- C. 200 V/m
- D. 2 V/m

Q.28. The slope of a velocity-time graph represents

A. Displacement

- B. Acceleration
- C. Speed
- D. Distance
- Q.29. A stationary charge produces
 - A. only electric field
 - B. only magnetic field
 - C. Both, electric field and magnetic field
 - D. None of these

Q.30. Which of the following is a good conductor of electricity?

- A. Rubber
- B. Glass
- C. Copper
- D. Plastic

Q.31. The universal law of gravitation was formulated by

- A. Isaac Newton
- B. Albert Einstein
- C. Galileo Galilei
- D. Johannes Kepler

Q.32. At which place, magnetic dip angle is maximum?

- A. Only on magnetic north pole
- B. Only on magnetic south pole
- C. On geographic north pole
- D. On magnetic north pole and magnetic south pole

Q.33. The gravitational force between two objects is inversely proportional to the

- A. square of the distance between them
- B. cube of the distance between them
- C. square root of the distance between them
- D. cube root of the distance between them

Q.34. The displacement current exists whenever the ______changes with time.

- A. electric field
- B. magnetic flux
- C. dielectric constant
- D. charge

Q.35. The electric field at a point is defined as the

- A. force experienced by a positive test charge placed at that point
- B. potential difference between two points in the field

- C. work done in moving a charge from one point to another
- D. None of these

Q.36. Which of the following is NOT a fundamental quantity in physics?

- A. Mass
- B. Length
- C. Time
- D. Force

Q.37. The photoelectric effect represents that

- A. electron has a wave nature
- B. proton has a wave nature
- C. light has a particle nature
- D. None of these

Q.38. The atomic number of an element is determined by the number of

- A. Electrons
- B. Nucleons
- C. Protons
- D. Neutrons

Q.39. The force experienced by a charged particle moving in a magnetic field depends on

- A. the charge of the particle
- B. the velocity of the particle
- C. the strength of the magnetic field
- D. All these

Q.40. The radius of the solid metallic sphere and the hollow metallic sphere is same. If they are brought in equipotential region, then

- A. the charge on solid metallic sphere is more
- B. the charges cannot exist on them
- C. both are having same charge on them
- D. the charge on hollow metallic sphere is more

Q.41. A machine having an efficiency greater than 50% is known as

- A. reversible machine
- B. non-reversible machine
- C. ideal machine
- D. None of these

Q.42. Which of the following statements is correct?

- A. The stress is the pressure per unit area
- B. Stress is directly proportional to strain within the elastic limit
- C. Strain is expressed in mm
- D. Stress is inversely proportional to strain within the elastic limit

Q.43. Electric current is a

- A. derived quantity
- B. scalar quantity
- C. vector quantity
- D. None of these

Q.44. The property by which a body returns to its original shape and size after removal of the force, is called

- A. Plasticity
- B. Elasticity
- C. Malleability
- D. Ductility

Q.45. Lenz's law is based on the principle of conservation of

- A. Energy
- B. Charge
- C. Momentum
- D. angular momentum

Q.46. The instrument used to measure the focal length of a lens is called a

- A. Telescope
- B. Spectrometer
- C. Lensometer
- D. Microscope

Q.47. A pendulum which executes one beat per second is known as_____ pendulum

- A. Simple
- B. second's
- C. compound
- D. torsional

Q.48. The centre of gravity of a right circular solid cone is at a distance of ______ from its base, measured along the vertical axis. (Where 'h' is height of right circular solid cone.)

- A. h/2
- B. h/3
- C. h/4
- D. h/6

Q.49. Which of the following is NOT a property of light?

- A. Reflection
- B. Refraction

- C. Absorption
- D. Transmission

Q.50. The direction of the magnetic field around a current-carrying conductor can be determined using

- A. Right-hand thumb rule
- B. Left-hand thumb rule
- C. Right-hand palm rule
- D. Left-hand palm rule

Q.51. The branch of geology that deals with 'the study of rocks' including the origin, texture, structure, and history of rocks is known as_____.

- A. Petrology
- B. Geomorphology
- C. Physiography
- D. None of these

Q.52. Which one of the following elements has the maximum percentage in the composition (mass) of the Sun?

- A. Helium
- B. Hydrogen
- C. Carbon
- D. Nitrogen

Q.53. Which part of the Earth is about 2900 km thick and accounts for nearly 80% of it's total volume?

- A. Core
- B. Crust
- C. Mantle
- D. None of these

Q.54. Radioactive elements like radium and uranium disintegrate into successively simpler elements of similar atomic weight and end product ______ is found in different isotopes.

- A. Nitrogen
- B. Argon
- C. Calcium
- D. Lead

Q.55. Which part of the Earth Atmosphere is the upper most layer and has very thin air?

- A. Exosphere
- B. Thermosphere
- C. Mesosphere
- D. Biosphere

Q.56. _____, also called mechanical weathering, is a process that causes the disintegration of rocks, mineral, and soils without chemical change

- A. Biological weathering
- B. Physical weathering
- C. Chemical weathering
- D. None of these

Q.57. The linear deposition of constituent sediments - small fragments of parent minerals, rock materials or mineral grains in a rock is known as_____

- A. Deformation
- B. Intrusion
- C. Layering
- D. None of these

Q.58. Temperature at which certain magnetic materials undergo a sharp change in their magnetic properties is known as_____

- A. Curie Temperature
- B. Thermodynamic Temperature
- C. Boltzmann Constant
- D. None of these

Q.59. Which part of the Earth is consisting of Nickel and Iron and also called as NiFe?

- A. The Inner Core
- B. Upper Continental Crust
- C. Lower Continental Crust
- D. The Outer Core

Q.60. The geometric Crystallography is based on the _____fundamental laws

- A. Two
- B. Three
- C. Four
- D. None of these

Q.61. Out of seven crystal systems, crystals of 'Fluorite' and 'Rock Salt' can be grouped into_____

- A. Isometric system
- B. Tetragonal system
- C. Orthorhombic system
- D. Monoclinic system

Q.62. The formation of minerals takes place by the

- A. precipitation from a solution
- B. solidification of magma
- C. sublimation from vapour
- D. All these

Q.63. The way a mineral offers resistance (or deforms) when it is subjected to crushing, bending, breaking or tearing, is known as_____

- A. Hefting
- B. Tenacity
- C. Fracture
- D. None of these

Q.64. Which of the following is not the ore mineral of metal 'iron'?

- A. Magnetite
- B. Hematite
- C. Bauxite
- D. Pyrite

Q.65. Which type of Coal is having the maximum percentage (about 80-95%) of carbon content?

- A. Anthracite
- B. Lignite
- C. Bituminous
- D. Peat

Q.66. Crude oil is brownish black in colour, is immiscible with water, but it is soluble in____

- A. Naphtha
- B. Ethe
- C. Benzene
- D. All these

Q.67. A gas will approach ideal behaviour at _____ temperature, _____ pressure

- A. high, high
- B. low, low
- C. low, high
- D. high, low

Q.68. Alkali metals are _____

- A. dehydrating agents
- B. oxidising agents
- C. reducing agents
- D. all these

Q.69. Which of the following methods is used for the concentration of Hematite ore?

- A. Forth floatation process
- B. Amalgamation
- C. Gravity separation
- D. Hand picking

Q.70. Which of the following processes is used for the extraction of zinc from zinc blende?

- A. Roasting followed by reduction with carbon
- B. Roasting followed by self-reduction
- C. Roasting followed by reduction with another metal
- D. Electrolytic reduction

Q.71. Which of the following processes does not occur spontaneously?

- A. Expanding a gas to fill the available volume
- B. Melting of ice into water
- C. Flow of water downhill
- D. Flow of heat from cold to hot body

Q.72. Which of the following alkali metals is least reactive?

- A. Li
- B. Na
- С. К
- D. Rb

Q.73. Which of the following is not an ore of Copper?

- A. Haematite
- B. Chalcopyrite
- C. Malachite
- D. Chalcocite

Q.74. The transition metal ions are generally paramagnetic in nature because they

- A. have one or more unpaired d-electrons
- B. form coloured salts
- C. have one or more paired s-electrons
- D. are reducing agents

Q.75. Which of the following polymers is not a condensation polymer?

- A. Bakelite
- B. Teflon
- C. Dacron
- D. Melamine

Q.76. Which of the following statements regarding ozone is/are correct?

- A. Ozone can oxidise sulphur dioxide present in the atmosphere to sulphur trioxide
- B. Ozone hole is thinning of ozone layer present in stratosphere
- C. Ozone is produced in upper stratosphere by the action of UV rays on oxygen
- D. All these

Q.77. The energy released when an electron is added to a neutral atom in the gaseous state is called

A. electron affinity

- B. ionization potential
- C. electrode potential
- D. electronegativity

Q.78. Which of the following statements is not true about classical smog?

- A. Its main components are produced by the action of sunlight on emissions of automobiles and factories
- B. It is produced in cold and humid climate
- C. It contains compounds of reducing nature
- D. It contains smoke, fog and sulphur dioxide

Q.79. Which of the following pairs is correctly matched?

- A. Electrical insulator Copper
- B. Weak electrolyte Glass
- C. Electronic conductor Acetic acid
- D. Strong electrolyte Sodium chloride

Q.80. Permanent hardness of water is due to the presence of

- A. sulphates of Ca and Mg in water
- B. carbonates of Ca and Mg in water
- C. hydrogen carbonates of Ca and Mg in water
- D. all these

Q.81. Which one of the following is the example of the type of erosional landforms developed by geological actions of groundwater?

- A. Sinkholes
- B. Stalactite
- C. Stalagmite
- D. Dripstone

Q.82. The steep walled land facing the sea is called _____ and it is developed due to continuous erosion of the land

- A. Cave
- B. Cove and headland
- C. Cliff
- D. Arch and stack

Q.83. When ______stress is applied on a rock mass, it results in slippage, translation and smearing of the rock mass

- A. Extensional
- B. Compressional
- C. Shear
- D. None of these

Q.84. ______ of a rock formation or a bed is the distance between upper bedding plane and lower bedding plane when measured perpendicular to the bedding planes

- A. Vertical thickness
- B. Width of outcrop
- C. True dip
- D. True thickness

Q.85. In the structure of the earth, the imaginary line that separates the crust from the mantle is known as______ discontinuity

- A. Gutenberg
- B. Mohorovicic
- C. Bedrock
- D. None of these

Q.86. A fault which is characterized by recurrent movement from time to time due to the displacements or seismic activity is known as_____

- A. Active fault
- B. Half-graben
- C. Tear fault
- D. Dike

Q.87. ____ method of stating direction implies that a circle is divided into 360° , beginning with 0° at the north pole and increasing clockwise to 360° at the north pole

- A. Bearing
- B. Azimuth
- C. Quadrant
- D. None of these

Q.88. ______deals with the study of the surface features of the Earth which are produced because of various external agencies operating on the Earth's surface

- A. Geomorphology
- B. Astrogeology
- C. Petrology
- D. None of these

Q.89. Small rocky planets orbiting the Sun between the orbits of Mars and Jupiter planets are known as

- A. Comets
- B. Asteroids
- C. Meteors
- D. None of these

Q.90. ______ states that the universe emerged from a hot and dense state about 13.7 billion years ago and from this soup of elementary particles, all the elements that we know today in the periodic table were formed

- A. Fred Hoyle's Magnetic Theory
- B. Hypothesis of Yuri-Kuiper
- C. Big Bang Theory
- D. None of these

Q.91. In radioactive series, mother element U is having the daughter element _____

- A. $Pb^{206} 8He^4$
- B. $Pb^{207} 7He^4$
- C. $Pb^{206} 6He^4$
- D. None of these

Q.92. _____are the surface waves wherein ground shakes horizontally from side to side in the propagation direction with no vertical motion

- A. Rayleigh Waves
- B. Love waves
- C. Both, Rayleigh and Love waves
- D. None of these

Q.93. _____are the lines drawn through the points at which the earthquake is recorded at the same time

- A. Isoseismal Lines
- B. Epifocal
- C. Coseismal lines
- D. Centrum

Q.94. The type of common form presents in the crystal, ______ is a face cutting one crystallographic axis and remaining parallel to the other two axes

- A. Pinacoid
- B. Pedion
- C. Prism
- D. Pyramid

Q.95. The symmetry of the crystals is explained with the help of _____ of symmetry

- A. Plane
- B. Axis
- C. Centre
- D. All these

Q.96. Colour of a mineral in its fine powdered form is called_____, which is usually a constant physical property irrespective of the presence of trace elements

- A. Streak
- B. Luster
- C. Luminescence
- D. None of these

Q.97. When minerals have no crystal faces developed, they are called as _____ crystals

- A. Euhedral
- B. Anhedral
- C. Subhedral
- D. None of these

Q.98. _____ minerals transmit light with equal velocity in all the directions as all the three axes are equal and interchangeable

- A. Isotropic
- B. Anisotropic
- C. Both, Isotropic and Anisotropic
- D. None of these

Q.99. _____deposit(s) is/are the ore deposit(s) which has/have formed after the formation of host rock in which they occur

- A. Syngenetic
- B. Epigenetic
- C. Both, Syngenetic and Epigenetic
- D. None of these

Q.100. _______is the soft clay-like material that occurs at some places as a selvage between a vein and country rock. It is usually formed by the crushing of ore or country rock or both

- A. Vein material
- B. Banded ore
- C. Gouge
- D. None of these

Q.101. Directions: Choose the option which is the plural form of the given word.

Analysis

- A. Analysies
- B. Analysises
- C. Analysis
- D. Analyses

Q.102. Directions: Choose the option which is the plural form of the given word.

Crisis

- A. Crises
- B. Crisis
- C. Crisises
- D. Crisisies

Q.103. Directions: Choose the option which best expresses the meaning of the given idiom/phrase.

Face the music

A. To compose a song which is not of any use

- B. To begin a new assignment
- C. To accept unpleasant consequences of one's actions
- D. To dance at a party

Q.104. Directions: Choose the option which best expresses the meaning of the given idiom/phrase.

Hold your tongue

- A. To stay quiet despite wanting to say something
- B. To insult someone
- C. To interfere in one's work
- D. To support someone

Q.105. Directions: Choose the most appropriate word which is nearest in meaning to the underlined word.

My niece was adamant in her decision to pursue a career in fashion designing.

- A. stubborn
- B. defensive
- C. foolish
- D. aggressive

Q.106. Directions: Choose the most appropriate word which is nearest in meaning to the underlined word.

The manager of our company is ruthless in dealing with his team members.

- A. harsh
- B. compassionate
- C. composed
- D. lenient

Q.107. Directions: Choose the most appropriate word which is opposite in meaning to the underlined word.

Ritesh was in terrible agony when he fell down and fractured his leg.

- A. comfort
- B. danger
- C. shock
- D. trial

Q.108. Directions: Choose the most appropriate word which is opposite in meaning to the underlined word.

Sudhir always initiated the fight with his classmates while they were playing.

- A. complicated
- B. extended

- C. ended
- D. enjoyed

Q.109. Directions: Fill in the blank with the most appropriate option out of the four given choices.

Private colleges ______ huge fees, but they have not been successful in providing quality education.

- A. charge
- B. collect
- C. ask
- D. take

Q.110. Directions: Fill in the blank with the most appropriate option out of the four given choices.

He is working under such ______ conditions that it is difficult to maintain his self-respect.

- A. harmful
- B. unfavourable
- C. difficult
- D. humiliating

Q.111. Directions: In the following question, a word has been written in four different ways.

Choose the correctly spelt word.

- A. Guaruntee
- B. Guaranttee
- C. Gaurantee
- D. Guarantee

Q.112. Directions: In the following question, a word has been written in four different ways.

Choose the correctly spelt word.

- A. Rehearsal
- B. Reharsal
- C. Rehearsel
- D. Rehersal

Q.113. Directions: This question consists of a sentence which is divided into four parts.

Find out which part of the sentence has an error.

- A. You can accomplish
- B. a great deal more
- C. in a day if one get up
- D. early in the morning

Q.114. The popular Sanchi Stupa (Great Stupa), a Buddhist complex is located in the Indian state of

A. Madhya Pradesh

- B. Chhattisgarh
- C. Uttar Pradesh
- D. Maharashtra

Q.115. What is dry ice?

- A. Solid hydrogen peroxide
- B. Dehydrated ice
- C. Solid water
- D. Solid carbon dioxide

Q.116. At present, India has how many Union Territories (UTs)?

- A. Six
- B. Seven
- C. Eight
- D. None of these

Q.117. As per Indian history, who was the founder of Mughal Empire in India?

- A. Jahangir
- B. Humayun
- C. Akbar
- D. Babur

Q.118. During British Raj in India, who was the first Governor-General of Bengal?

- A. Warren Hastings
- B. Lord Cornwallis
- C. Lord Canning
- D. Lord William Bentinck

Q.119. Who is/was the only Indian citizen astronaut to travel in space till date?

- A. Kalpana Chawla
- B. Rakesh Sharma
- C. Ravish Malhotra
- D. None of these

Q.120. Which of the following acids is found in vinegar?

- A. Succinic acid
- B. Oxalic acid
- C. Acetic acid
- D. Citric acid

Q.121. The President of India is elected by all the _____

- A. elected members of Lok Sabha
- B. elected members of Rajya Sabha
- C. members of Parliament
- D. elected members of Parliament and State assemblies

Q.122. The Indian political party system is an example of _____

- A. one party system
- B. two party system
- C. multi-party system
- D. partyless democracy

Q.123. Rounded shape of raindrop is caused due to_____.

- A. Gravitation
- B. Density of water
- C. Surface tension
- D. Atmospheric pressure

Q.124. Which among the following is considered the largest island on the Earth?

- A. Greenland
- B. New Guinea
- C. Madagascar
- D. Sumatra
- Q.125. Who is/was the first woman President of India?
 - A. Indira Gandhi
 - B. Pratibha Patil
 - C. Sarojini Naidu
 - D. Annie Besant

Q.126. To become a member of the Lok Sabha, a person should be a citizen of India and not less than _____years of age.

-()|()(-

- A. 21
- B. 25
- C. 30
- D. 35

Q.127. The sum of any two-digit number and the number formed by reversing its digits is always divisible by _____.

- A. 9
- **B.** 11
- C. 3
- D. 7

Q.128. The strength of male employees to female employees in an office is 4:9. If the number of male employees in the office is 92, then what is the strength of female employees in the office?

A. 127

B. 167

C. 207

D. 197

Q.129. What is the amount an account holder will get, if the account holder deposits Rs.15,000 in a bank at 8% per annum for 2 years compounded annually?

- A. Rs.16,769
- B. Rs.16,967
- C. Rs.15,896
- D. Rs.17,496

Q.130. The salary of an employee in a company is Rs.20,000 a month and she saves 35% of her salary. What money does she spend each month?

- A. Rs.11,500
- B. Rs.12,500
- C. Rs.13,000
- D. Rs.14,000

Q.131. A school has 3400 students. If 65% of them are boys, the number of girls in the school is

- A. 1170
- B. 1180
- C. 1280
- D. 1190

Q.132. Pens are bought at the rate of 6 for a rupee and sold at 5 for a rupee. What will be the gain per cent?

- A. 10%
- B. 20%
- C. 30%
- D. 40%

Q.133. What is the marked price of the computer which is sold during the offseason for Rs.13,000 after allowing a discount of 35%?

- A. Rs.20,000
- B. Rs.19,000
- C. Rs.18,000
- D. Rs.17,500

Q.134. Find 'x', if the mean of 5, 2, x + 4, 2x - 4, 2x + 3 is 25.

A. 20

- B. 22
- C. 21
- D. 23

Q.135. If Satish can do a job in 15 days and Kapil works twice as fast as Satish, then in how many days can Satish and Kapil together complete the job?

- A. 4.5 days
- B. 5 days
- C. 5.5 days
- D. 6 days

Q.136. Pipe A takes 32 less minutes than Pipe B to fill a tank. If Pipe A is three times faster than Pipe B, find the time taken to fill the same tank if both the pipes are opened together.

- A. 15 minutes
- B. 16 minutes
- C. 20 minutes
- D. 12 minutes

Q.137. Which one of these is a perfect cube?

- A. 9.261
- B. 800
- C. 1250
- D. None of these

Q.138. In 200 ml of a solution, water and milk are in the ratio of 2:3. How much water should be added to the solution to make the ratio as 3:2?

- A. 65 ml
- B. 100 ml
- C. 115 ml
- D. 140 ml

Q.139. Directions: Complete the series by replacing '?' with the correct option.

U7Z, V6A, W5B, X4C, Y3D, '?'

- A. Z1F
- B. Y4G
- C. X3F
- D. Z2E

Q.140. Directions: Complete the series by replacing '?' with the correct option.

7, 21, 22, 66, 67, '?', 202

- A. 68
- B. 201
- C. 176
- D. 198

Q.141. Directions: Find the odd one out.

F8G, G9H, H7I, I8H, I5K, K7L

- A. I5K
- B. G9H
- C. I8H
- D. K7L

Q.142. Directions: Find the odd one out.

ABC, BDF, CFI, DHL, EJM, FLR

- A. BDF
- B. DHL
- C. EJM
- D. FLR

Q.143. L, M, N, O, P and Q are sitting in a row all facing front. P and Q are sitting in the centre. L and M are sitting at the two ends. N is sitting to the right of L. Who is sitting to the immediate left of M?

- A. L
- B. P
- C. 0
- D. Q

Q.144. If in a certain code language, FLOWERS is written as SREWOLG, then how will MOUNTAIN be written in that code language?

- A. NIATNUON
- B. NIATNOUN
- C. NIATNUOM
- D. NIANTUON

Q.145. Aditi started travelling east from point A for 800 m. At the end of 800 m, she reached point B. She took a left turn from point B and travelled for another 500 m and reached point C. From point C she turned left again and travelled for 400 m to reach point D. In which direction is point D from point A?

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

Q.146. Six persons Amit, Meenu, Lalit, Om, Niru and Dinesh are standing in a row facing north (not necessarily in the same order). Amit stands in one of the middle two positions. Dinesh is standing three places right of Om. Meenu and Lalit stand somewhere to the left of Amit. Lalit stands to the immediate left of Om. There are two persons between Lalit and Niru. Who is standing between Om and Meenu?

A. Niru

- B. Lalit
- C. Dinesh
- D. Amit

Q.147. A cube is painted blue on all faces and is then cut into 125 cubes of equal size. How many cubes are painted on one face only?

- A. 16
- B. 54
- C. 48
- D. 32

Q.148. Rajesh climbed 2 steps but then fell down 1 step. Rajesh again managed to climb 2 steps, but again fell down 1 step. This keeps on happening to Rajesh until he reaches the top of 10 steps. In how many attempts would Rajesh be able to climb 10 steps in total?

- A. 10
- B. 8
- C. 9
- D. 11

Q.149. Ajay is 6 years older than his brother Bibu who is twice as old as his nephew Chetan. If the total of the ages of the three is 66 years, then how old is Bibu?

- A. 15 years
- B. 14 years
- C. 12 years
- D. 24 years

Q.150. One orange and three apples cost Rs.180 but one apple and three oranges cost Rs.300. What is the cost of one apple?

- A. Rs.90
- B. Rs.60
- C. Rs.30
- D. None of these

"Welcome to <u>WWW.OPENGEOLOGY.IN</u> our Resource Hub..... Here, you'll find a wealth of materials designed to support your learning journey. Explore our comprehensive collection of notes, articles, quizzes, videos, and test series tailored for various subjects and exams."

- Notes Section: "Access high-quality notes for your subjects, available for download to aid your study sessions. [See More]" <u>https://opengeology.in/all-india-notes/</u>
- Articles Section: "Discover informative articles covering key concepts, study strategies, and educational insights. [Read More]"

https://opengeology.in/category/geo-articles/

> Quizzes Section: "Test your knowledge with our interactive quizzes, designed to

reinforce what you've learned. [Take a Quiz]"

https://opengeology.in/courses/free-quizs/

- Videos Section: "Watch our curated educational videos that explain complex topics in an easy-to-understand format. [View Videos]" <u>https://www.youtube.com/@opengeology</u>
- Test Series Section: "Prepare for your exams with our comprehensive test series,

featuring practice questions and detailed explanations. [Start Practicing]" https://opengeology.in/our-courses/

Free Study Material : "Have free access to the high quality study material [select as per access to the h

your target]" https://opengeology.in/

Targeted Exams Section

"Find resources tailored to your specific exams. Whether you are preparing for the GATE, IIT JAM, UPSC SCIENTISTS, GEOLOGY OPTIONAL, GSI (GENERAL STUDIES), MINING OFFICER, CSIR ES, or OTHER EXAMS. We have everything you need to succeed. [Explore Exam Resources]"

- FOR GATE https://opengeology.in/gate-geology-pyg/
- FOR CSIR NET <u>https://opengeology.in/csir-ugc-net-pyq/</u>
- FOR IIT JAM <u>https://opengeology.in/iit-jam-pyq/</u>
- FOR IIT JAM SOLUTION https://opengeology.in/our-courses/iit-jam-solutions/
- FOR GSI (GENERAL STUDIES) <u>https://opengeology.in/our-courses/gsi-pre-gs-study-material/</u>

- FOR UPSC GEOSCIENTISTS (GEOLOGY) <u>https://opengeology.in/gsi-geologist-hydrologist-pyq/</u>
- FOR MINING EXAMS <u>https://opengeology.in/mining-exam-pyg/</u>
- OTHER GEOLOGICALL EXAMS <u>https://opengeology.in/other-geology-exams/</u>
- STATE SET EXAMS https://opengeology.in/state-set-exams/
- FOR ALL INDIA NOTES https://opengeology.in/all-india-notes/
- FOR NUMERICALS https://opengeology.in/numericals/
- FOR OUR COURSES https://opengeology.in/our-courses/
- FOR QUIZES https://opengeology.in/courses/free-quizs/

Join to social media -

- TELEGRAM <u>t.me/opengeology1</u>
- INSTAGRAM <u>www.instagram.com/opengeology1/</u>
- WEBSITE <u>www.opengeology.in/</u>

WHATSAPP https://whatsapp.com/channel/0029Va7KUjkFHWqAZ4I7hC1H

GEOLOG