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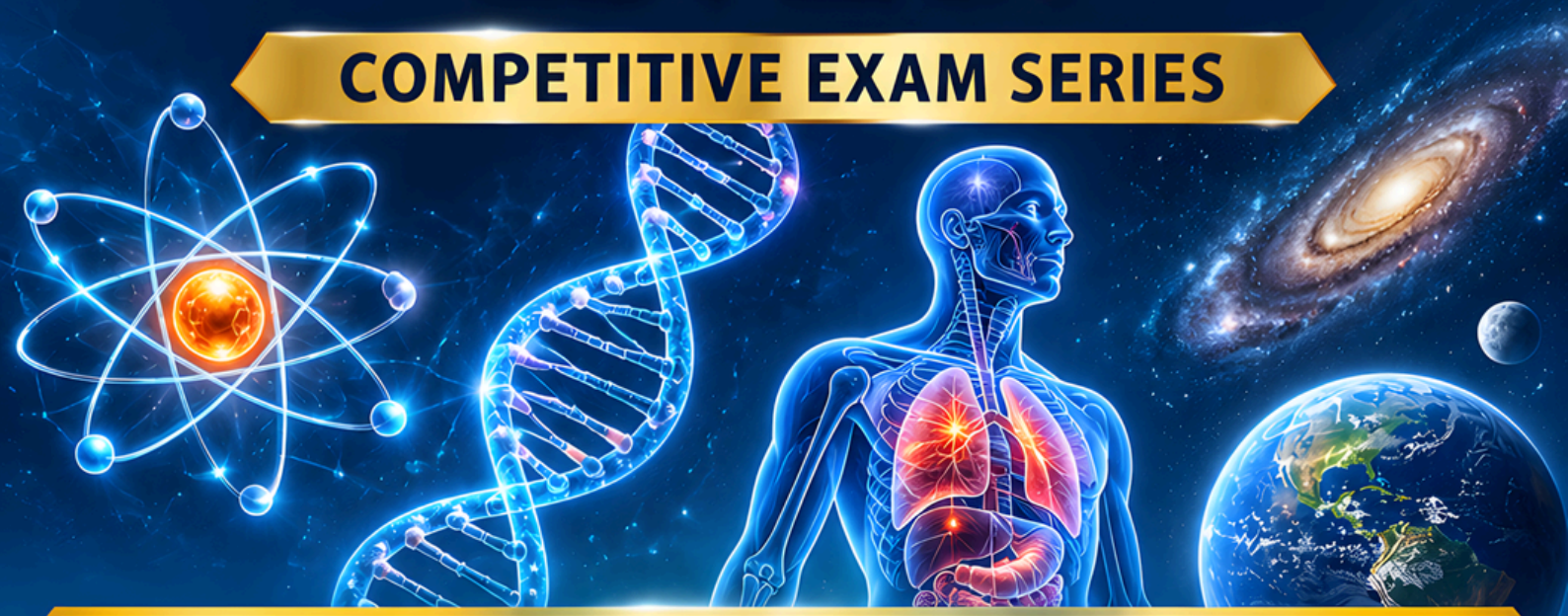

POLICE RECRUITMENT PRACTICE PAPERS

GENERAL SCIENCE



POLICE CONSTABLE • POLICE SI

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Police Recruitment Practice Papers

General Science

Prepare for Police recruitment examinations with 10 General Science practice papers containing 200 multiple-choice questions. Designed to test your understanding of important scientific concepts and everyday applications, these papers help candidates assess their knowledge and strengthen their preparation for Police Constable and Police SI examinations.

Papers Included

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Suitable for: Police Constable, Police SI

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POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 1

Q1. What is the chemical formula of bleaching powder?
(A) Ca(OH)2
(B) CaO
(C) CaCO3
(D) CaOCl2,

Q2. Under which Schedule of the Wildlife (Protection) Act, 1972, is the greater one-horned rhinoceros protected?
(A) III
(B) II
(C) IV
(D) I

Q3. Which transparent structure forms the front surface of the human eye and allows light to enter?
(A) Iris
(B) Cornea
(C) Lens
(D) Retina

Q4. Which of the following materials is used as a substitute for mercury in thermometers?
(A) Arsenic
(B) Galinstan
(C) Bromine
(D) Selenium

Q5. Which law gives the expression for the electrostatic force between two stationary point charges in a vacuum?
(A) Lenz's Law
(B) Coulomb's Law
(C) Gauss's Law
(D) Ohm's Law

Q6. What level of body organisation is found in animals belonging to the phylum Platyhelminthes?
(A) cell-tissue
(B) protoplasmic
(C) cellular
(D) tissue-organ

Q7. Which of the following is an example of an arthropod?
(A) Blood sucking leech
(B) Hookworm
(C) Earthworm
(D) Scorpion

Q8. Which of the following statements is correct?
(A) The watt is the SI unit of energy.
(B) Joule per newton is the SI unit of power.
(C) Joule is the SI unit of work.
(D) Joule per second is the SI unit of energy.

Q9. Which mineral element is essential for the formation of both haemoglobin and myoglobin?
(A) Calcium
(B) Vitamin A
(C) Iron
(D) Vitamin B12

Q10. What is the development of a fruit without fertilisation called?
(A) Apomixis
(B) Gametogamy
(C) Hybridogenesis
(D) Parthenocarpy

Q11. Which substance is used to remove the greenish colour from glass?
(A) Sulphur dioxide
(B) Silicon dioxide
(C) Manganese dioxide
(D) Titanium dioxide

Q12. Which metal ion released by the tannery industry is a major cause of water pollution?
(A) Mg
(B) As
(C) Zn
(D) Cr

Q13. Which is the densest stable element known on Earth?
(A) Osmium
(B) Aluminium
(C) Radium
(D) Tungsten

Q14. What is the approximate speed of sound in dry air at 20°C?
(A) 220 m/s
(B) 343 m/s
(C) 232 m/s
(D) 110 m/s

Q15. Which part of the brain controls posture, balance and equilibrium?
(A) Cerebellum
(B) Diencephalon
(C) Brainstem
(D) Cerebrum

Q16. Which type of medicine is used to treat indigestion?
(A) Analgesic
(B) Antacid
(C) Antibiotic
(D) Antiseptic

Q17. Which of the following is a heterogeneous mixture?
(A) Both Solution and Suspension
(B) Suspension
(C) Neither Solution nor Suspension
(D) Solution

Q18. Which type of reproduction commonly occurs in Hydra?
(A) Binary Fission
(B) Budding
(C) Fragmentation
(D) Spore Formation

Q19. Which of the following components is found only in eukaryotic cells?
(A) Nuclear membrane
(B) Cytoplasm
(C) Plasma membrane
(D) Ribosomes

Q20. On average, how many million red blood cells are present per mm^3 of blood in a healthy adult man?
(A) 5 - 5.5
(B) 1.5 - 2
(C) 9 - 9.5
(D) 2 - 2.5

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 2

Q1. Which of the following diseases can be caused by drinking contaminated water?
(A) Anaemia
(B) Scurvy
(C) Cholera
(D) Rickets

Q2. How are negatively charged ions, known as anions, formed?
(A) Removal of proton
(B) Removal of electron
(C) Addition of proton
(D) Addition of electron

Q3. In optics, what term refers to the opening of a lens diaphragm that limits the passage of light?
(A) Collimator
(B) Aperture
(C) Apostilb
(D) Meniscus

Q4. Which physical quantity is represented by the slope of a distance–time graph?
(A) speed
(B) acceleration
(C) momentum
(D) mass

Q5. Who published an article in 1838 discussing the structure and origin of plant cells?
(A) Matthias Schleiden
(B) Robert Brown
(C) Rudolf Virchow
(D) Albert von Kolliker

Q6. Which mineral is popularly known as 'buried sunshine'?
(A) Iron
(B) Coal
(C) Bauxite
(D) Mica

Q7. What is the study of the production and propagation of sound waves called?
(A) Optics
(B) Acoustics
(C) Astrophysics
(D) Photonics

Q8. What is the upward buoyant force exerted by a fluid on an object called?
(A) upthrust
(B) moment
(C) torque
(D) pressure

Q9. What is the common name for solid carbon dioxide?
(A) Potash
(B) Epsom
(C) Dry Ice
(D) Quicksilver

Q10. Methane is a colourless, odourless, non-toxic but flammable gas. What is its common name?
(A) Marsh gas
(B) Heating gas
(C) Laughing gas
(D) Blue vitriol

Q11. Which of the following is primarily eliminated from the body through the lungs rather than the kidneys?
(A) Uric acid
(B) Ammonia
(C) Urea
(D) Carbon dioxide

Q12. What is 68°F equivalent to on the Celsius scale?
(A) 24
(B) 20
(C) 10
(D) 16

Q13. Approximately what percentage of Earth's carbon fixation is carried out by algae?
(A) a half
(B) a quarter
(C) one-tenth
(D) one-third

Q14. Which of the following diseases is caused by bacteria?
(A) Dengue fever
(B) Common cold
(C) AIDS
(D) Tuberculosis

Q15. On what basis is the current rating of a fuse used in a household electrical circuit determined?
(A) Voltage
(B) Resistance
(C) Current
(D) Power

Q16. Which substance forms dry ice in its solid state?
(A) hydrogen
(B) nitrogen
(C) oxygen
(D) carbon dioxide

Q17. What is heavy water primarily used for?
(A) In nuclear reactors
(B) In fire extinguisher
(C) In washing cloth
(D) In both Nuclear reactors and Fire extinguisher

Q18. Which class of compounds is formed by the reaction of an oxoacid with a hydroxyl compound, such as an alcohol or phenol?
(A) Amines
(B) Esters
(C) Carbonyls
(D) Carboxylic acids

Q19. Which scientist began grouping elements with similar chemical properties in 1817?
(A) Henry Moseley
(B) Dobereiner
(C) Mendeleev
(D) Emmy Noether

Q20. Which of the following substances is not a form of calcium carbonate?
(A) Limestone
(B) Limewater
(C) Marble
(D) Chalk

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 3

Q1. What is 14°F equivalent to on the Celsius scale?
(A) 20
(B) -10
(C) -20
(D) 10

Q2. Which of the following acids is also known as muriatic acid?
(A) Nitric Acid
(B) Sulphuric Acid
(C) Hydrochloric Acid
(D) Carbonic Acid

Q3. Who established the relationship between the electric current flowing through a metallic wire and the potential difference across its terminals?
(A) Niels Bohr
(B) Albert Einstein
(C) Georg Simon Ohm
(D) Rutherford

Q4. Which structure serves as a common passage for both sperm and urine in human males?
(A) vas deferens
(B) ureter
(C) urethra
(D) seminal vesicle

Q5. Deficiency of which nutrient causes night blindness?
(A) Vitamin C
(B) Proteins
(C) Vitamin A
(D) Vitamin K

Q6. In which organ of the human body are alveoli located?
(A) lungs
(B) liver
(C) heart
(D) kidney

Q7. Which gland regulates the functioning of several other endocrine glands?
(A) Pancreas
(B) Pineal gland
(C) Adrenal gland
(D) Pituitary gland

Q8. What level of organisation is exhibited by protozoans such as Amoeba and Paramecium?
(A) tissue-organ
(B) protoplasmic
(C) cell-tissue
(D) cellular

Q9. Which of the following is the chemical formula of barium peroxide?
(A) Ba_2O_2
(B) BaO
(C) $BaSO_4$
(D) BaO_2

Q10. According to Newton's second law of motion, which quantity is equal to mass multiplied by acceleration?
(A) force
(B) kinetic energy
(C) torque
(D) impulse

Q11. What is the primary source of energy for most ecosystems?
(A) Moonlight
(B) Sunlight
(C) Heat released during respiration
(D) Oxidation in plants

Q12. How is methane classified based on its contribution to global warming?
(A) carcinogenic
(B) infectious
(C) greenhouse
(D) poisonous

Q13. Which of the following materials has the highest electrical resistivity?

(A) Silver
(B) Iron
(C) Nichrome
(D) Chromium

Q14. Which gas can cause explosions in coal mines?
(A) Carbon dioxide
(B) Butane
(C) Methane
(D) Nitrogen

Q15. What are the elements belonging to Group 18 of the periodic table commonly called?
(A) Radioactive Gases
(B) Noble Gases
(C) Reactive Gases
(D) Volatile Gases

Q16. Which of the following is a thermosetting plastic?
(A) Bakelite
(B) Mycotecture
(C) Bagasse
(D) Bioplastic

Q17. Which of the following gases reduces the oxygen-carrying capacity of blood?
(A) Nitric oxide
(B) Carbon dioxide
(C) Nitrous oxide
(D) Carbon monoxide

Q18. Which of the following animals is NOT a non-chordate?
(A) Reptiles
(B) Arachnids
(C) Porifera
(D) Arthropods

Q19. Which organism is known as the farmer's friend because it loosens the soil and breaks down organic matter?
(A) earthworm
(B) locust
(C) rat
(D) weed

Q20. Magnetic confinement of plasma is the scientific principle used in which of the following techniques?
(A) Electric generator
(B) Particle accelerators
(C) Giant Metrewave Radio Telescope
(D) Fusion reactor

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 4

Q1. At what numerical temperature do the Fahrenheit and Celsius scales have the same value?
(A) - 34°
(B) - 40°
(C) - 140°
(D) 40°

Q2. Which of the following combinations is NOT correctly matched?
(A) Ammonotelic - cartilaginous fish
(B) Uricotelic - reptiles and birds
(C) Ammonotelic - aquatic animals
(D) Ureotelic-terrestrial mammals

Q3. What is the hybrid offspring of a female lion and a male tiger called?
(A) Savannah
(B) Liger
(C) Tigon
(D) Cama

Q4. From which organ does lymph carry absorbed dietary fats?
(A) stomach
(B) intestine
(C) kidney
(D) lungs

Q5. Which physical quantity is calculated by dividing the total energy consumed by the total time taken?
(A) force
(B) momentum
(C) power
(D) torque

Q6. What are members of the class Phaeophyceae commonly known as?
(A) red algae
(B) green algae
(C) brown algae
(D) white algae

Q7. Which of the following is NOT an allotrope of carbon?
(A) Graphite
(B) Methane
(C) C-60 Buckminsterfullerene
(D) Diamond

Q8. Solanum lycopersicum L. is the scientific name of which commonly consumed vegetable?
(A) Garlic
(B) Potato
(C) Tomato
(D) Onion

Q9. What type of motion occurs when an object covers unequal distances in equal intervals of time?
(A) linear
(B) non-uniform
(C) equilibrium
(D) uniform

Q10. What is the general formula of alkenes?
(A) CnH3n
(B) CnH2n
(C) CnH4n
(D) CnH6n

Q11. Which technology uses a powerful magnet and radio waves to produce images of internal organs and body structures?
(A) Positron emission tomography
(B) Computed tomography
(C) Fluoroscopy
(D) Magnetic resonance imaging

Q12. Which of the following is the correct chemical formula of nitromethane?
(A) CH_3NO_2
(B) CH_4NO_2
(C) CH_3NO
(D) CH_3NO_3

Q13. Which physical quantity is measured using the Réaumur scale?
(A) Speed
(B) Length
(C) Elasticity
(D) Temperature

Q14. What is the vertical distribution of different species across the levels of an ecosystem called?
(A) revolution
(B) stratification
(C) decomposition
(D) biomagnification

Q15. Which animal phylum includes bilaterally symmetrical, segmented animals with an open circulatory system?
(A) Chordata
(B) Porifera
(C) Arthropoda
(D) Protozoa

Q16. Which group of plants is known as the amphibians of the plant kingdom?
(A) Gymnosperms
(B) Bryophytes
(C) Liverworts
(D) Pteridophytes

Q17. What is the SI unit of momentum?
(A) Joule
(B) Kg m/sec
(C) Kg-m
(D) Ampere

Q18. What is a base that dissolves in water called?
(A) Alkali
(B) Aldehyde
(C) Alkene
(D) Alcohol

Q19. How does the momentum of a body change if its velocity doubles while its mass remains constant?
(A) remains same
(B) doubles
(C) becomes half
(D) becomes 4 times

Q20. What are the temporary, finger-like projections used by Amoeba for movement and feeding called?
(A) endoplasm
(B) contractile vacuole
(C) pseudopodia
(D) food vacuoles

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 5

Q1. What is the process involving the successive stages of vaporisation and condensation called?
(A) Crystallisation
(B) Sublimation
(C) Distillation
(D) Chromatography

Q2. Who coined the term "mitochondria"?
(A) Carl Benda
(B) Charles Laveran
(C) J E Salk
(D) Antonie van Leeuwenhoek

Q3. Which of Newton's laws provides a quantitative definition of force?
(A) Second law of motion
(B) Third law of motion
(C) First law of motion
(D) Universal law of gravitation

Q4. Which vitamin is naturally produced by the human body through exposure to sunlight?
(A) Vitamin C
(B) Vitamin A
(C) Vitamin B
(D) Vitamin D

Q5. What is the process of treating domestic wastewater commonly called?
(A) sewage
(B) bacteria
(C) microbe
(D) pollutant

Q6. What is the name of the compound with the chemical formula CH_3CH_2OH?
(A) Ethanol
(B) Methane
(C) Acetic Acid
(D) Chloroform

Q7. What are the symbiotic organisms that form slow-growing coloured patches on tree bark called?
(A) Aphids
(B) Lichens
(C) Egrets
(D) Shrimps

Q8. Which of the following materials is primarily used to manufacture integrated circuits?
(A) Glass
(B) Iron
(C) Silicon
(D) Aluminum

Q9. What is the chemical name of baking soda?
(A) Sodium carbonate
(B) Calcium hydroxide
(C) Sodium hydrogen carbonate
(D) Sulphate

Q10. What is the size of the image formed by a concave mirror when an object is placed between its pole and principal focus?
(A) Diminished
(B) Same Size
(C) Enlarged
(D) Point Size

Q11. Which branch of biology studies the microscopic structure of cells, tissues and organs?
(A) Entomology
(B) Ichthyology
(C) Histology
(D) Paleontology

Q12. Where does internal fertilisation take place?
(A) Inside the male's body
(B) Inside the female's reproductive tract
(C) Outside the male's body
(D) Outside the female's body

Q13. What is the ability of a single cell to develop into a complete, fertile organism called?
(A) Pluripotency
(B) Cloning
(C) Mutation
(D) Totipotency

Q14. Which sensation is primarily detected by somatosensory receptors in the skin?
(A) Touch
(B) Taste
(C) Smell
(D) Hearing

Q15. Which of the following belongs to the family Hominidae?
(A) Wheat
(B) Mango
(C) Housefly
(D) Man

Q16. Polycot is a blend of which two materials?
(A) Rayon and wool
(B) Polyester and wool
(C) Polyester and cotton
(D) Rayon and cotton

Q17. A rectangular copper-wire coil rotates in a magnetic field. After how much rotation does the direction of the induced current reverse?
(A) Half revolution
(B) One revolution
(C) Two revolutions
(D) One fourth revolution

Q18. Which human limb contains the humerus, radius, ulna, carpals and metacarpals?
(A) vertebral column
(B) forelimb/upper limb
(C) hindlimb / lower limb
(D) pelvic girdle

Q19. How is a voltmeter connected between the two points across which the potential difference is to be measured?
(A) Along the same magnetic field
(B) Perpendicular to each other
(C) In parallel
(D) In concentric circles

Q20. Who coined the phrase "survival of the fittest" to describe natural selection?
(A) Louis Pasteur
(B) Marie Curie
(C) Charles Babbage
(D) Herbert Spencer

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 6

Q1. What is the chemical name of slaked lime?
(A) Sodium Chloride
(B) Calcium Hydroxide
(C) Calcium Nitrate
(D) Calcium Chloride

Q2. Which animal phylum is commonly known as the flatworms?
(A) Cnidaria
(B) Ctenophora
(C) Porifera
(D) Platyhelminthes

Q3. Which animal species is scientifically known as Euderma maculatum?
(A) rats
(B) bats
(C) foxes
(D) eagles

Q4. What is the general formula of alkenes?
(A) C(n)H(2n)
(B) C(n)H(2n-2)
(C) C(n)H(2n+2)
(D) C(n)H(2n-1)

Q5. Which of the following diseases is NOT typically transmitted through contaminated water?
(A) Hepatitis A
(B) Mumps
(C) Cholera
(D) Typhoid

Q6. Which scientist developed the theory of relativity?
(A) Albert Einstein
(B) JJ Thomson
(C) Ernest Rutherford
(D) Niels Bohr

Q7. Which of the following is an example of an animal belonging to the phylum Mollusca?
(A) King crab
(B) Seahorse
(C) Octopus
(D) Dolphin

Q8. Which of the following is NOT a chemical coagulant used in water treatment?
(A) Aluminium sulfate (Alum)
(B) Nitrogen dioxide
(C) Polyaluminium chloride (PAC)
(D) Aluminium chloride

Q9. What is the chemical name of the ionic compound NaCl?
(A) Lithium chloride
(B) Sodium chloride
(C) Calcium Iodide
(D) Cesium fluoride

Q10. Which of the following diseases does NOT spread through the air?
(A) Pneumonia
(B) Cholera
(C) Cough-cold
(D) Tuberculosis

Q11. Which of the following is a naturally occurring sweetener?
(A) Aspartame
(B) Saccharin
(C) Sucrose
(D) Sucralose

Q12. Which quantum number determines the spatial orientation of an atomic orbital?
(A) spin quantum number
(B) magnetic quantum number
(C) azimuthal quantum number
(D) principal quantum number

Q13. Which scientist demonstrated through prism experiments that white light can be separated into its constituent colours?
(A) Niels Bohr
(B) Albert Einstein
(C) Galileo Galilei

(D) Isaac Newton

Q14. Which of the following red algae is used to produce agar?
(A) Gracilaria
(B) Chlorella
(C) Sargassum
(D) Align

Q15. Which unit is commonly used to measure the energy content of food?
(A) Kelvin
(B) Watt
(C) Celsius
(D) Calorie

Q16. Which neurological disorder causes seizures due to abnormal electrical activity in brain cells?
(A) Prostatitis
(B) Rheumatoid arthritis
(C) Epilepsy
(D) Hypoglycaemia

Q17. What are species that occur exclusively in a particular geographical area called?
(A) Endangered
(B) Endemic
(C) Threatened
(D) Critically Endangered

Q18. What is the name of the element represented by the chemical symbol Ge?
(A) Germanium
(B) Gold
(C) Gallium
(D) Gadolinium

Q19. How many electrons do halogens have in their outermost shells?
(A) six
(B) eight
(C) five
(D) seven

Q20. Which gas contributes to global warming by trapping heat in the atmosphere?
(A) Hydrogen
(B) Oxygen
(C) Methane
(D) Nitrogen

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 7

Q1. How much heat energy, in joules, is released by a 20 W heating filament operating for 2 seconds?
(A) 10
(B) 40
(C) 80
(D) 20

Q2. Which branch of zoology studies amphibians and reptiles?
(A) Herpetology
(B) Mammalogy
(C) Ethology
(D) Morphology

Q3. Which ion is primarily responsible for the acidic nature of soil?
(A) hydrogen
(B) oxygen
(C) nitrogen
(D) phosphorous

Q4. Which of the following is the primary source of energy and nutrients required by human beings?
(A) Food
(B) Sunlight
(C) Water
(D) Oxygen

Q5. Which of the following grains contains the protein oryzenin?
(A) Rice
(B) Wheat
(C) Barley
(D) Soyabean

Q6. What are the tiny pores on leaves through which gaseous exchange takes place during photosynthesis called?
(A) Chloroplast
(B) Stomata
(C) Chlorophyll
(D) Vacuole

Q7. Titanium dioxide, used as a white pigment in products such as toothpaste, is derived from which mineral?
(A) Mica
(B) Fluorite
(C) Ilmenite
(D) Silica

Q8. Which compound found in petroleum can cause corrosion in internal combustion engines and refinery equipment?
(A) Calcium
(B) Potassium
(C) Sodium
(D) Sulphur

Q9. What is the IUPAC name of isopentane, a branched-chain hydrocarbon with the formula C_5H_{12}?
(A) butadiene
(B) dimethylbutane
(C) isobutane
(D) 2-methylbutane

Q10. Which optical phenomenon is primarily responsible for the reddish appearance of the atmosphere at sunrise and sunset?
(A) Reflection of light
(B) Refraction of light
(C) Dispersion of light
(D) Scattering of light

Q11. Which of the following is an indigenous dairy cattle breed?
(A) Kanni
(B) Red Sindhi
(C) Kombai
(D) Chippiparai

Q12. Which medical condition involves progressive damage to the optic nerve?
(A) Dry Eye
(B) Glaucoma
(C) Cataract
(D) Age-related Macular Degeneration (AMD)

Q13. What type of chemical reaction produces a single product from two or more reactants?
(A) Displacement reaction
(B) Combination reaction
(C) Double displacement reaction
(D) Decomposition reaction

Q14. What type of reflection is responsible for the reflections seen in bathroom mirrors, on calm lakes and as glare on glasses?
(A) Specular reflection
(B) Multiple reflection
(C) Glossy reflection
(D) Diffused reflection

Q15. What is the role of ribosomes in a polysome?
(A) Help in making DNA
(B) Help in DNA replication
(C) Create rRNA
(D) Translate the mRNA into proteins

Q16. Which compound reacts with ammonia to produce urea in industrial manufacturing?
(A) carbon dioxide
(B) hydrogen
(C) oxygen
(D) sulphur

Q17. Which physical quantity is measured using a thermometer?
(A) thermal inductance
(B) temperature
(C) fire
(D) heat

Q18. Which of the following is NOT a part of a flower?
(A) Stamen
(B) Sepal
(C) Pistil
(D) Petiole

Q19. Which of the following gases has an odour resembling that of rotten eggs?
(A) Dimethylcyclohexane
(B) Ammonia
(C) Chlorine
(D) Hydrogen Sulfide

Q20. Which of the following methods is NOT used to purify organic compounds?
(A) Crystallisation
(B) Sedimentation
(C) Distillation
(D) Sublimation

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 8

Q1. Which leaf structure connects the leaf blade to the stem?
(A) Vein
(B) Midrib
(C) Petiole
(D) Stipules

Q2. Which of the following is an essential micronutrient required by plants?
(A) Phosphorus
(B) Nitrogen
(C) Calcium
(D) Zinc

Q3. Approximately how many joules of heat energy are equivalent to one calorie?
(A) 2.4
(B) 0.48
(C) 4.2
(D) 0.24

Q4. Which of the following substances is commonly known as marsh gas?
(A) Ethane
(B) Chlorine
(C) Ethyne
(D) Methane

Q5. What is the part of the stem from which a leaf arises called?
(A) node
(B) bud
(C) tuber
(D) carpel

Q6. How many eyes does a typical adult bee have?
(A) Two
(B) Three
(C) Five
(D) Four

Q7. Which of the following statements about chordates is correct?
(A) Heart is dorsal or laterally placed or absent
(B) Notochord is present
(C) Double ventral solid nerve cord
(D) A post anal tail is absent

Q8. What is the frequency range of ultrasonic sound?
(A) higher than 40 kHz
(B) higher than 20 kHz
(C) higher than 50 kHz
(D) higher than 30 kHz

Q9. What is the common name of Parthenium hysterophorus?
(A) Lemongrass
(B) Horse grass
(C) Lawn grass
(D) Carrot grass

Q10. Which ecologist's research provided groundbreaking insights into the movement of energy and nutrients through ecosystems?
(A) Arthur Tansley
(B) Charles Elton
(C) Raymond L Lindeman
(D) Ernst Haeckel

Q11. What is the phenomenon called in which fats and oils develop unpleasant smells and tastes due to deterioration?
(A) Rancidity
(B) Corrosion
(C) Erosion
(D) Ductility

Q12. After death, a person suffering from which of the following conditions may generally be eligible to donate their corneas?
(A) Asthma
(B) AIDS
(C) Acute leukaemia
(D) Both asthma and acute leukaemia

Q13. Which chemical compound is used in the manufacture of certain hard plastics, such as polycarbonate?

(A) Heptachlor
(B) Chrome alum
(C) Bisphenol A (BPA)
(D) Trifluralin

Q14. Yeast and mushrooms belong to which kingdom?
(A) Monera
(B) Protista
(C) Fungi
(D) Plantae

Q15. Which of the following is a non-biodegradable form of waste?
(A) Flowers
(B) Dead animals
(C) Plastic
(D) Vegetables

Q16. What is the scientific study of viruses called?
(A) Parasitology
(B) Virology
(C) Mycology
(D) Protozoology

Q17. Which low-calorie sweetener has the chemical formula $C_{14}H_{18}N_2O_5$ and is approximately 200 times sweeter than sugar?
(A) Saccharin
(B) Aspartame
(C) Sucralose
(D) Neotame

Q18. Which of the following is the SI unit of temperature?
(A) Ampere
(B) Reaumur scale
(C) Kelvin
(D) Candela

Q19. The Bacille Calmette–Guérin (BCG) vaccine is used to prevent which disease?
(A) Tuberculosis
(B) Polio
(C) Typhoid
(D) Jaundice

Q20. Which of the following particles is not positively charged?
(A) Alpha particle
(B) Helium nucleus
(C) Electron
(D) Proton

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 9

Q1. What is the length of one international nautical mile in metres?
(A) 2450 metres
(B) 2000 metres
(C) 1672 metres
(D) 1852 metres

Q2. Which of the following plants has leaves modified into spines as an adaptation?
(A) Mimosa
(B) Opuntia
(C) Rose
(D) Hibiscus

Q3. Which physical quantity can change a body's state of rest or uniform motion when an unbalanced external influence acts on it?
(A) Heat
(B) Energy
(C) Force
(D) Power

Q4. Which colour in the VIBGYOR spectrum has the lowest energy?
(A) Green
(B) Yellow
(C) Red
(D) Violet

Q5. What is the SI unit of luminous intensity?
(A) Kelvin
(B) Mole
(C) Candela
(D) Ampere

Q6. What is the equivalent resistance of two resistors, R_1 and R_2, connected in series?
(A) R1 – R2
(B) R1 + R2
(C) 2R1R2/(R1 + R2)
(D) (R2 + R1)/R1R2

Q7. Which of the following is NOT an unsaturated carbon compound?
(A) Pentene
(B) Butane
(C) Acetylene
(D) Benzene

Q8. Which of the following elements has an atomic number greater than that of bromine?
(A) Silver
(B) Iron
(C) Copper
(D) Chromium

Q9. What is the common name of the compound with the chemical formula C_6H_6?
(A) Acetic acid
(B) Benzene
(C) Methanol
(D) Acetone

Q10. Which of the following is the smallest bird in the world?
(A) Robin
(B) Finch
(C) Diamond Firetail
(D) Bee Hummingbird

Q11. Which of the following substances has a sweet smell?
(A) Esters
(B) Ethanol
(C) Methanol
(D) Ammonia

Q12. Which of the following plants is carnivorous?
(A) Hyacinth
(B) Cypress Vine
(C) Venus Flytrap
(D) Amaryllis

Q13. Which common bleaching agent contains calcium hypochlorite as its principal active ingredient?
(A) Bleaching powder
(B) Baking powder
(C) Baking soda

(D) Washing soda

Q14. Which of the following is NOT a vertebrate?
(A) Bird
(B) Fish
(C) Snail
(D) Mammal

Q15. On which of the following is the numerical taxonomy of plants based?
(A) Structure
(B) Chromosome number
(C) All observable characteristics
(D) Chemical constituents

Q16. What is the water found below the water table called?
(A) Water cycle
(B) Aquifer
(C) Ground water
(D) Water table

Q17. How many chambers does a crocodile's heart have?
(A) Two
(B) Single
(C) Four
(D) Three

Q18. What is the pH range of acidic substances?
(A) Below 7.0
(B) Below 2.0
(C) Below 4.0
(D) Below 1.0

Q19. Which of the following is not an ore of iron?
(A) Magnetite
(B) Cuprite
(C) Siderite
(D) Haematite

Q20. Which chemical compound, with the formula CH_3CH_2Cl, is used as a blowing agent in foamed plastics?
(A) Chloromethane
(B) 3-Chlorohexane
(C) 1-chloropropane
(D) Chloroethane

POLICE RECRUITMENT PRACTICE PAPERS
General Science – Paper 10

Q1. Which of the following is NOT a neutral oxide?
(A) Na2O
(B) CO
(C) NO
(D) N2O

Q2. Which of the following terms refers to the scientific study of domestic dogs?
(A) Craniology
(B) Carpology
(C) Chrematistics
(D) Cynology

Q3. Which of the following substances are present in a chromosome?
(A) RNA and sugar
(B) DNA and lipid
(C) RNA and amino acid
(D) DNA and protein

Q4. Which of the following does NOT belong to the family of organic compounds?
(A) Ammonia
(B) Furan
(C) Nonane
(D) Decane

Q5. Which of the following metals has the lowest melting point?
(A) Tin
(B) Zinc
(C) Lead
(D) Silver

Q6. Which of the following is NOT an allotrope of carbon?
(A) Graphite
(B) Methane
(C) C-60
(D) Diamond

Q7. Which element has deuterium as one of its isotopes?
(A) Hydrogen
(B) Carbon
(C) Nitrogen
(D) Oxygen

Q8. What is obtained by multiplying an element's equivalent weight by its valency?
(A) Relative temperature
(B) Atomicity
(C) Atomic weight
(D) Density

Q9. Which metal changes from the liquid state to the gaseous state when heated to its boiling point of approximately 357°C?
(A) Gallium
(B) Bronze
(C) Mercury
(D) Copper

Q10. Which type of force is not involved in Millikan's oil-drop experiment?
(A) viscous
(B) magnetostatic
(C) gravitational
(D) electrostatic

Q11. What is the primary function of insulin in the human body?
(A) stimulates lactation
(B) Increases blood sugar
(C) constricts blood vessels
(D) decreases blood sugar

Q12. What is the normal resting respiratory rate of a healthy adult, measured in breaths per minute?
(A) 25–30
(B) 9–11
(C) 21–24
(D) 12–20

Q13. What type of motion does a freely falling body near Earth's surface exhibit when air resistance is neglected?
(A) Uniform acceleration

(B) Non-uniform acceleration
(C) Zero acceleration
(D) Variable acceleration

Q14. The tibia is a bone found in which region of the human body?
(A) Leg
(B) Hand
(C) Skull
(D) Arm

Q15. Which of the following is the third stage in the life cycle of a butterfly?
(A) Larva
(B) Egg
(C) Adult
(D) Pupa

Q16. Which of the following substances has a strong fruity fragrance?
(A) Methyl chloride
(B) Methanol
(C) Ethyl acetate
(D) Methanoic acid

Q17. Which of the following diseases is primarily caused by vitamin C deficiency?
(A) Scurvy
(B) Rickets
(C) Goitre
(D) Kwashiorkor

Q18. Which chemical compound is the main constituent of limestone, chalk and marble?
(A) Calcium oxide
(B) Calcium phosphate
(C) Calcium carbonate
(D) Calcium hydroxide

Q19. Which of the following is not an alkaline earth metal?
(A) Na
(B) Mg
(C) Ca
(D) Be

Q20. What survival strategy do certain bacteria adopt by forming thick-walled endospores under unfavourable conditions?
(A) Migration
(B) Conformity
(C) Regulation
(D) Dormancy

Answers & Explanations

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