NCERT Based General Science

3500+

Biology + Chemistry + Physics

For: UPSC, SSC, TET EXAMS, HTET, HSSC, RPSC, RAILWAYS, NAVY, AIRFORCE and important for other govt. exams

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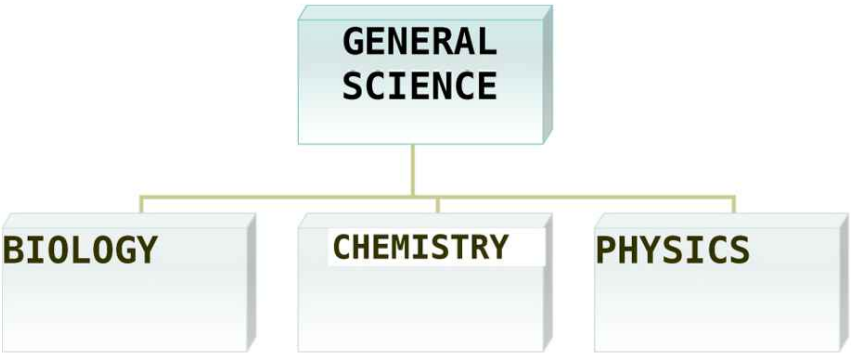

· **1** Which Vitamin is known as the anti-infective vitamin?

Ans : Vitamin A

· **2** What is the source of Vitamin A in Leafy vegetables?

Ans : Carotene

· **3** Which is the pigment giving yellow colour to Milk?

Ans : Carotene

· **4** Unpolished rice is a rich source of which vitamin?

Ans : Thiamine (Vitamin B1)

· **5** Which Vitamin is used for ELISA test (AIDS)?

Ans : Vitamin B7 (Biotin)

· **6** Which Vitamin contains Cobalt?

Ans : Vitamin B12 (Cyanocobalamin)

· **7** Which Vitamin helps to heal wound?

Ans : Vitamin C

· **8** Which Vitamin helps in blood clotting?

Ans : Vitamin K

· **9** Which Vitamin helps immunity of body?

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Ans : Vitamin C

· **10** Which is the first artificially synthesized Vitamin?

Ans : Vitamin C

· **11** Night Blindness is caused due to the deficiency of?

Ans : Vitamin A

· **12** Hyperkeratosis is caused due to the deficiency of?

Ans : Vitamin A

· **13** Keratomalacia is caused due to the deficiency of?

Ans : Vitamin A

· **14** Beriberi is caused due to the deficiency of?

Ans : Vitamin B1

· **15** Wernicke-Korsakoff syndrome is caused due to the deficiency of?

Ans : Vitamin B1

· **16** Ariboflavinosis is caused due to the deficiency of?

·

Ans : Vitamin B2

· **17** Pellagra is caused due to the deficiency of?

Ans : Vitamin B3

· **18** Paresthesia is caused due to the deficiency of?

Ans : Vitamin B5

· **19** Anemia peripheral neuropathy is caused due to the deficiency of?

Ans : Vitamin B6

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· **20** Dermatitis is caused due to the deficiency of?

Ans : Vitamin B7

· **21** Enteritis. is caused due to the deficiency of?

Ans : Vitamin B7

· **22** Megaloblast and Deficiency during pregnancy is associated with birth defects such as neural tube defects are due to the deficiency of?

Ans : Vitamin B9

· **23** Megaloblastic anemia is caused due to the deficiency of?

Ans : Vitamin B12

· **24** Scurvy is caused due to the deficiency of?

Ans : Vitamin C

· **25** Rickets and Osteomalacia is caused due to the deficiency of?

Ans : Vitamin D

· **26** Bleeding diathesis is caused due to the deficiency of?

Ans : Vitamin K

· **27** Water soluble Vitamins are?

Ans : B complex; C

· **28** Fat soluble Vitamins are?

Ans : A; D; E; K

· **29** Who is known as father of Biology /Zoology?

Ans : Aristotle

· **30** Who discovered that 'Plant have life'?

Ans : J.C. Bose

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· **31** Name two nitrogen fixing bacteria?

Ans : Rhizobium & Azetobactor

· **32** The plants absorbs the element nitrogen in the form of?

Ans : Nitrates

· **33** Name the plant that absorbs ammonia directly?

Ans : Paddy

· **34** Write an example of nitrogen fixing algae?

Ans : Cyanobacteria

· **35** Name the minerals caused by Eutrophication?

Ans : Nitrogen; phophorus

· **36** Black gram is very rich in .....?

Ans : Proteins & carbohydrates

· **37** Name two insecticides?

Ans : DDT; BHC

· **38** Dioxin is a common .....?

Ans : Weedicide

· **39** Which scientist coined the term 'Biology'?

Ans : Jean Lamarck

· **40** Which is the monocarpic plant which shows gregarious flowering once in 48 years?

Ans : Bamboo

· **41** BHC is the common name of....?

Ans : Gamaxin

· **42** Which gas lead to global warming?

Ans : Carbondioxide

· **43** Which gas lead to ozone depletion?

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Ans : Chlorofluro carbon

· **44** What is the term used for the occurrence of more than one type of morphologically different leaves on the same plant?

Ans : Heterophylly

· **45** What is cladode?

Ans : The modification of stem to carry the function of leaf is called cladode. eg: Opuntia

· **46** What is the male reproductive part of the flower known as?

Ans : Stamens

· **47** What is the most common nutritive tissue for the developing embryos in angiosperm known as?

Ans : Endosperm

· **48** What is the common name of Agaricus?

Ans : Mushroom

· **49** What is cambium?

Ans : Elongated cells in between xylem and phloem in dicot plants constitute cambium

· **50** Write the name of the trees which flower only once in a complete life-cycle?

Ans : Monocarpic

· **51** Give the name of an organism that derives its nourishment from another living organism?

Ans : Parasite

· **52** How do plant cells differ from animal cells?

Ans : In having cell walls; plastids and large vacuoles

· **53** Name an organism having characters of both plants and animals?

Ans : Euglena

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· **54** In which plants the annual rings are absent?

Ans : Gymnosperms

· **55** What is the peculiarity of Gymnosperms?

Ans : They have naked ovules

· **56** Fruits are not produced in gymnosperms. Why?

Ans : Because they are without an ovary

· **57** In gymnosperms; How does pollination takes place?

Ans : Through Wind

· **58** Name any polygamous type of plant?

Ans : Mango

· **59** What do you mean by IUCN?

Ans : International Union for Conservation of Nature and Natural Resources

· **60** Name a plant that forms fruits but no seed?

Ans : Banana

· **61** Name a plant that forms seeds but no fruits?

Ans : Pinus

· **62** What are Kelps?

Ans : Kelps are large sea weeds

· **63** Write an example of an epiphyte?

Ans : Vanda

· **64** Write an example of annuals?

Ans : Wheat; rice

· **65** Write an example of Hydrophytes?

Ans : Hydrilla; Water lily; Lotus; Water Hyacinth

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· **66** Write an example of Mesophytes?

Ans : Cassia fistula; China Rose; Sunflower

· **67** Which is the tallest tree?

Ans : Redwood Sequoia

· **68** The process of developing new and improved varieties of plants?

Ans : Plant breeding

· **69** The process of removing anther from a bisexual flower?

Ans : Emasculation

· **70** The central plantation crops Research Institute is in?

Ans : Kasargod

· **71** Where is the hybrid sugarcane centre situated?

Ans : Coimbatore

· **72** The pepper research station is in?

Ans : Kannur (Panniyur)

· **73** The modern techniques adopted for the improvement of plants?

Ans : Hybridisation and mutation

· **74** What is phagocytosis?

Ans : Engulfing of solid food or foreign particles by the cell

· **75** Where was IUCN started?

Ans : Switzerland

· **76** Which is the first link of a food chain?

Ans : Producer or green plants

· **77** The whole living world on the earth's surface is called?

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Ans : Biosphere

- **78** The biggest flower in the plant kingdom is?

Ans : Rafflesia.

- **79** What are biotic factors?

Ans : Biotic factors include plants; animals; human beings and all other living organisms

- **80** What is a protozoa?

Ans : It is unicellular organism

- **81** The wall of a plant cell is made up of?

Ans : Cellulose

- **82** What do you know about Fucus?

Ans : Fucus is a large brown seaweed

- **83** What are Angiosperms?

Ans : They are flowering plants

- **84** Which is the plant that stores food in its leaves?

Ans : Cabbage

- **85** What is the name of the disease caused by the lack of iron in plants?

Ans : Chlorosis

- **86** Which one is commonly known as "Band Silk"?

Ans : Spirogyra

- **87** What is fertilization?

Ans : It means fusion of the nuclei of male and female gametes

- **88** Where is National Botanical Garden situated?

Ans : Lucknow

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· **89** Cricket bats are made up of the wood of one tree. What is its name?

Ans : Willow

· **90** What is the method by which plants absorb mineral salts?

Ans : They absorb mineral salts through osmosis

· **91** Which plant is renowned for its remarkable growth?

Ans : Bamboo

· **92** Which plant is a carnivore?

Ans : Butter vort

· **93** Largest herb in the world is?

Ans : Banana plant

· **94** Where does the fertilization occur?

Ans : Embryo sac

· **95** What is stigma?

Ans : Stigma is the receptive surface area of the carpel

· **96** Give one example of heterogamous type of capitulum?

Ans : Sun flower

· **97** What is the other name of cork?

Ans : Phellem

· **98** Which part of embryo forms the root?

Ans : Radicle

· **99** Who found out that virus is contagious?

Ans : Wendell M. Stanley

· **100** Poorman's wood?

Ans : Bamboo

· **101** Poorman's orange?

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Ans : Tomato

- **102** King of Fruit?

Ans : Mango

- **103** Queen of Fruit?

Ans : Mangosteen

- **104** Fruit of Haryana?

Ans : Plum (Zizyphus Jujuba)

- **105** Name the amphibian of plant kingdom?

Ans : Bryophytes

- **106** Name two complex tissues in plants?

Ans : Xylem and Phloem

- **107** Conduction of food from leaves to different plants parts takes place through?

Ans : Phloem

- **108** Which plant is known as 'Monkey's puzzle'?

Ans : Auracaria embricate

- **109** The basic unit of biological classification is?

Ans : species

- **110** What is sulphur shower?

Ans : The profuse amount of pollen grains liberated by pine forests during the month of March - April

- **111** Opium is obtained from?

Ans : Immature fruits of popi plant

- **112** Carbohydrates present in Lichen?

Ans : Lichenin

- **113** Turmeric is a ..... type modification?

Ans : Stem

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- **114** Sugar cane is a ..... plant?

Ans : Grass

- **115** Sugar present in fruits?

Ans : Fructose

- **116** The technique of producing plants from minute fragments is called?

Ans : Tissue culture

- **117** Name the carbohydrate that cannot be digested by human digestive system?

Ans : cellulose

- **118** India's National Flower is?

Ans : Lotus

- **119** Largest Flower of India?

Ans : Sapria (a root parasite)

- **120** Smallest Flower in the world?

Ans : Wolffia /duck weed

- **121** Largest flower in the world?

Ans : Rafflesia

- **122** Fastest growing plants are?

Ans : Bambusa

- **123** Fastest growing tree is?

Ans : Albizia falcata

- **124** Largest trees in plant world is?

Ans : Conifers

- **125** Oldest living plant of the world is?

Ans : Pinus

- **126** Largest Leaf is?

Ans : Victoria regia

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· **127** Smallest seed is?

Ans : Orchid seed

· **128** National fruit of India?

Ans : Mango

· **129** Name a flower which is used as food?

Ans : Cauliflower

· **130** An example of Tuber crop?

Ans : Potato

· **131** The gaseous exchange in plants take place through?

Ans : Stomata

· **132** Full form of DNA?

Ans : Deoxy ribonucleic acid

· **133** Full form of RNA?

Ans : Ribonucleic acid

· **134** DNA is associated with highly basic proteins called?

Ans : Histones

· **135** What are insectivorous plants?

Ans : Plants that trap insects and other small creatures for food. eg : Nepenthes; Sundew

· **136** Which part of the Vanilla planlifolia is used as vanilla; a flavouring material?

Ans : Fruit of vanilla orchid

· **137** The symptom necrosis is due to the deficiency of?

Ans : Iron

· **138** Dispersal of seed by ant is called?

Ans : Myrmecochory

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· **139** Which is called blue print of information?

Ans : DNA

· **140** How are the populations of different species kept under check?

Ans : By food chain

· **141** Which is the smallest angiosperm?

Ans : Wolffia arrhiza

· **142** What are seedless plants called?

Ans : Cryptogams

· **143** Expand the term TMV?

Ans : Tobacco Mosaic Virus

· **144** Name the process by which plants prepare their food?

Ans : Photosynthesis

· **145** What is the other name of root cap?

Ans : Calyptra

· **146** What are Heliophytes and Sciophytes?

Ans : Heliophytes are plants that grow in full sunlight; Sciophytes are plants that grow in shade CLASSIFICATION

· **147** The process of grouping of any thing into convenient catagories based on some easily observable characters is known as .....?

Ans : Classification

· **148** The scientific term for a particular classified group is?

Ans : Taxa

· **149** The process of classifying organisms into different taxa is known as?

Ans : Taxonomy

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· **150** The scientific naming of an organism is known as?

Ans : Nomenclature

· **151** Which provide the basic principles and criteria for plant nomenclature?

Ans : ICBN (International Code for Botanical Nomenclature)

· **152** The scientific name of an organism has two components. Which are they?

Ans : Generic name and specific name

· **153** The system of providing scientific name with two components is called?

Ans : Bionomial nomenclature

· **154** The System of Binomial nomenclature was introduced by?

Ans : Carlous Linnaeus

· **155** The ultimate unit of classification is?

Ans : Species

· **156** The store house of dried; pressed and preserved plant specimens is known as?

Ans : Herbarium

· **157** Who proposed the two kingdom classification of organisms?

Ans : Linnaeus

· **158** The five kingdom classification is given by?

Ans : R.H. Whittaker

· **159** The 'red tide' of the sea is caused by the rapid multiplication of which algae?

Ans : Red dinolagellates (Eg. Gonyaulax)

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· **160** The five kingdoms of Whittaker's classifications are?

Ans : Kingdom Monera; Kingdom Protista; Kingdom Fungi; Kingdom Plantae; Kingdom Animalia

· **161** Which algae is used as food supplement by space travellers?

Ans : Spirullina

· **162** Naked seed producing plants are called?

Ans : Gymnosperms

· **163** The flowering plants are called?

Ans : Angiosperms

· **164** The formation of fruit without fertilisation is known as?

Ans : parthenocarpy

· **165** Plant that grow in a dry habitat are called?

Ans : Xerophytes

· **166** Plants that live for many years are called?

Ans : perennials

· **167** Embryo with two cotyledons are called?

Ans : Dicotyledons

· **168** Who propounded five kingdom classification?

Ans : R.H. Whittaker

· **169** The prokaryotic cells are included in the class?

Ans : Monera

· **170** Name the multicellular marine plant?

Ans : Rhodophyta (Red algae)

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· **171** The Xanthophyll pigment in the phaeophyta is?

Ans : fucoxanthin

· **172** In Bryophyta the thallus like plant body is attached to the soil by?

Ans : rhizoids

· **173** Name the multicellular terrestrial plant with vascular tissues?

Ans : Lycodophyta

· **174** Plants that grow in acidic soil?

Ans : Oxylophytes

· **175** Plants that grow in water are called as?

Ans : hydrophytes

· **176** Plants that grows on rocks?

Ans : Lithophytes

· **177** Which is the most advanced flowering plants?

Ans : Angiosperms

· **178** Plants which grow in soil?

Ans : Terrestrial plants

· **179** The primary producers in nature are?

Ans : Plants

· **180** Plants that grow in saline water are called?

Ans : Halophytes

· **181** What are conifers?

Ans : The multicellular plants with well developed tissue. Its leaves are simple; smaller and needle like eg : cedrus; pine

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· **182** What are the two classes of flowering plants?

Ans : They are Monocotyledons or Monocots and Dicotyledons or Dicots CELL

· **183** The fundamental structural and functional unit of all living organisms is?

Ans : Cell

· **184** The cell was first observed by?

Ans : Robert Hooke

· **185** The cell theory was formulated by a german botanist and a british zoologist. Who are they?

Ans : The German botanist is Matthias Schleiden and The British Zoologist is Theodore Schwann. They proposed that "the bodies of animals and plants are composed of cells and products of cells"

· **186** Name the scientist who modified cell theory by giving the postulate "Omnis cellula-e-cellula"?

Ans : Rudolf Virchow He states that all cells arise from pre-existing cells through cell division.

· **187** Which are the two types of cells?

Ans : Eukaryotic cell and Prokaryotic cell

· **188** Which are the important cell organelles?

Ans : Endoplasmic reticulum; Mitochondria; Golgic complex; Lysosome; Microbodies; Vacuoles; and Ribosomes

· **189** Name the non -membrane bound cell organelle which is present in both eukaryotic and prokaryotic cell?

Ans : Ribosomes

· **190** The smallest cell is?

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m in length) □ Ans : Mycoplasmas /PPLO. (Pluro Pneumonia like Organisms) (0.3

· **191** The largest isolated single cell is?

Ans : The egg of Ostrich

· **192** Which cell organelle is known as "skeletal system of the cell"?

Ans : Endoplasmic reticulum

· **193** Which cell organelle is called "power house of the cell"?

Ans : Mitochondria Which cell organelle is called "the suicidal bags"?

· **194** In all cells the cytoplasm is externally bounded by a semi - permeable membrane. It is known as .....?

Ans : Cell membrane/Plasma membrane

· **195** Name the microbodies which are known as enzyme bags?

Ans : Peroxisomes and glyoxysomes

· **196** The membrane bound space in the cytoplasm is known as?

Ans : Vacuole

· **197** The vacuole is bounded by a single membrane called?

Ans : Tonoplast

· **198** The small hair like outgrowths of the cell membrane is known as?

Ans : Cilia

· **199** Comparatively longer hair like outgrowths of the plasma membrane is?

Ans : Flagella

· **200** Nucleus of the cell was discovered by?

Ans : Robert Brown

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· **201** The semi-fluid substance inside the nuclear membrane is called?

Ans : nucleoplasm or karyolymph

· **202** The spherical body made up of proteins; rRNAs and r DNAs is found inside the nucleus. It is known as?

Ans : Nucleolus

· **203** Numerous thread like structures which forms the skeleton of the nucleus; is known as?

Ans : Chromatin network

· **204** Nucleus contains?

Ans : Nuclearmembrane; Nucleoplasm; Nucleolus; Chromatin threads

· **205** Who discovered Micro Organism?

Ans : Anton Van Leeuwenhoek (1675)

· **206** First microscope was designed by?

Ans : Anton Van Leeuwenhoek

· **207** Who observed Bacteria at first?

Ans : Anton van Leeuwenhoek (1676).

· **208** Name the scientist who discoved the chromosomes during cell division?

Ans : Strasburger

· **209** The organism carrying highest number of chromosomes is a pteridophyte. It is known as .....?

Ans : Ophioglossum regalis (1262)

· **210** Robert Hooke who discovered cell; published his findings in .....?

Ans : Micrographia CELL DIVISION

· **211** Who proposed that cells always arises from pre-existing cells?

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Ans : Rudolf Virchow

· **212** Bovery and Flemming observed mitosis in animal cells. Then who first observed mitosis in plant cell?

Ans : Strasburger

· **213** The cell division that brings growth in multicellular organisms is known as.....?

Ans : Mitosis

· **214** The correct sequence of mitosis is?

? ☐ Metaphase ☐ Ans : Prophase

· **215** The longest stage of mitosis is.....?

Ans : Prophase

· **216** In the shortest phase of mitosis the separation of newly formed chromosomes occurs. Which is that phase?

Ans : Anaphase

· **217** Which stage is known as reverse of prophase?

Ans : Telophase

· **218** Which cell division helps to maintain the chromosome number of a species?

Ans : Meiosis

· **219** What is MITOSIS?

Ans : It is a process of cell division which results in the production of 2 daughter cells from a single parent cell. The daughter cells are identical to one another and also to the original parent cell

· **220** STEPS IN MITOSIS?

Ans : Prophase 1) Formation and doubling of chromosomes 2) Break down of nuclear envelope 3) Disappearance of nucleolus 4) Movement of centrioles to opposite poles Metaphase 1) Chromosomes lie at the equator 2) Formation of spindle fibers 3) Spindle

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fibers get attached to the chromosomes. Anaphase 1) Separation of newly formed chromosomes towards opposite poles Telophase 1) Chromosomes elongate and overlap to form chromatin 2) Nucleolus begins to reappear 3) Nuclear envelope forms around each group of chromosomes.? Cytokinesis 1) Division of protoplast occurs.

- **221** Mitosis occurs in which type of cells?

Ans : Vegetative cell (Body cells)

- **222** Meiosis occurs in which cells?

Ans : Reproductive cell

- **223** In which cell division chromosome number is reduced to half?

Ans : Meiosis

- **224** The branch of botany which deals with the life processes in plants is known as?

Ans : plant physiology

- **225** Father of Plant physiology?

Ans : Stephen Hales

- **226** Father of Indian Plant Physiology?

Ans : Sir J.C. Bose

- **227** The movement of particles or molecules of a substance from the region of higher concentration to a region of lower concentration is called .....?

Ans : Diffusion

- **228** The total water content present in the soil is known as?

Ans : holard

- **229** The water available to the plant from the soil is known as .....?

Ans : Chesard

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• **230** In a plant cell DNA is present in?

Ans : Chromosomes; Mitochondria; Chloroplast

• **231** The non - available water in the soil is called?

Ans : echard

• **232** Upward conduction of water occurs through which type of plant cells?

Ans : xylem elements

• **233** The loss of water in the form of vapour from aerial parts of the stem is called .....?

Ans : transpiration

• **234** Transpiration occurs through which plant part?

Ans : stomata

• **235** Any substance applied to plants for the purpose of retarding transpiration is known as?

Ans : antitranspirant

• **236** A natural antitranspirant in plants?

Ans : CO2

• **237** The process of nitrogen fixation in organisms is controlled by which gene?

Ans : Nifgenes

• **238** Non - symbiotic N2 - fixation is carried out by bacteria such as ..... and .....?

Ans : Azotobacter & Clostridium

• **239** Symbiotic N2 - fixation is carried out by which bacteria?

Ans : Rhizobium leguminosarum

• **240** Name two non - symbiotic N2- fixing blue - green algae (cyanobacteria)?

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Ans : Nostoc; Anabaena

· **241** The term Nitrogen fixation denotes?

Ans : Conversion of nitrogen into ammonia

· **242** Hydroponics is a method of?

Ans : growth of plants in liquid culture medium

· **243** Maximum photosynthesis occurs in which light?

Ans : Red light

· **244** The loss of water from plants in the form of liquid is known as?

Ans : Guttation

· **245** Guttation occurs through specialised pores known as .....?

Ans : Hydathodes

· **246** The plants which are green in colour and capable of synthesizing their own food are known as?

Ans : Autotrophic plants

· **247** MICRO ELEMENTS means?

Ans : The elements which are required by plants in small amounts are called micro - elements. Eg. Mn; Zn; B; Cu; Mo & Cl. They are involved in the functioning of enzymes.

· **248** The major macro- elements are C; H; O; N; S; P; K; Ca; Mg and Fe ganic food. Such plants are called?

Ans : Heterotrophic plants

· **249** The heterotrophic plants which totally depends on living plants or animals for their food are known as?

Ans : Parasites

· **250** The heterotrophs which depends on dead and rotten organic remains of plants and ani-

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mals are called?

Ans : Saprophytes

· **251** An association of two dissimilar organisms where both members are benefitted is known as?

Ans : Symbiosis

· **252** Name the two major steps in photosynthesis?

Ans : (1) Light reaction; (2) Dark reaction

· **253** The splitting of water (photolysis) in photosynthesis occurs in which step?

Ans : Light reaction

· **254** Explain PHOTOSYNTHESIS?

Ans : It is the process of manufacture of organic compounds from CO2 and H2O in the presence of sunlight as a source of energy. The first step of photosynthesis is light reaction which occurs in the grana of chloroplast. The major process in this step are (1) Photolysis of water and evolution of O2 (2) Photophosphorylation. It is the process of ATP formation from ADP using light energy. The second step is dark reaction; It occurs in stroma of chroloplast. Here CO2 is reduced to carbohydrates; using ATP & NADPH.

· **255** Explain ANTI TRANSPIRANTS?

Ans : About 98% of water absorbed by plants on land is evaporated from the aerial parts; through transpiration. Due to this the plant has to face several problems. So the rate of transpiration must to reduced. For this certain substances are used to reduce the rate of transpiration. These are known as antitranspirants. eg : colourless plastics; silicone oils; phenyl mercuric acetate

· **256** The preparation of organic food by reducing CO2 takes place in which phase?

Ans : Dark Phase

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· **257** The most abundant plant pigment in the world?

Ans : Chlorophyll a

· **258** Minimum rate of photosynthesis is found in which colour?

Ans : Green

· **259** The process of break down of food materials within the cell to release energy is known as?

Ans : Cellular respiration

· **260** The organic food that are oxidised during cellular respiration are known as?

Ans : respiratory substrates

· **261** The energy released during respiration is used for the synthesis of .....?

Ans : ATP

· **262** The rate of respiration is measured by?

Ans : respirometer

· **263** Glycolysis takes place in which part of the cell?

Ans : Cytoplasm

· **264** Kreb's cycle occurs in?

Ans : Mitochondria

· **265** Name the important plant hormones?

Ans : Auxins; Gibberellins; Cytokinins; Abscisic acid & Ethylene

· **266** Which plant hormones are known as growth promoters?

Ans : Auxin; Gibberellin; Cytokinin

· **267** Which plant hormones are known as growth inhibitors?

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Ans : Abscisic acid and Ethylene

· **268** The only gaseous plant hormone which promotes fruit growth and ripening is?

Ans : Ethylene

· **269** In plants the adverse enviornmental conditions are overcome with the help of which hormone?

Ans : Abscisic acid

· **270** The plant hormone abscisic acid is also known as .....?

Ans : Stress hormone

· **271** Which plant hormone is known as the ripening hormone?

Ans : Ethylene

· **272** Which hormone is responsible for flowering in plants?

Ans : Florigen

· **273** The activity of which hormone help to cover wounded or injured portions of a plant?

Ans : Traumatic acid

· **274** Synthetic growth regulators are commonly known as?

Ans : Morphactins

· **275** The synthetic auxin which is used as a herbicide?

Ans : -2.4 - Dichloro Phenoxy Acetic Acid (2; 4-D)

· **276** The hormone present in coconut milk is?

Ans : cytokinin

· **277** Seed dormancy is due to?

Ans : Abscisic acid

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· **278** Plant movement in response to chemical stimulus is called?

Ans : Chemotropism

· **279** The bending of stem towards light is due to?

Ans : Phototropism

· **280** The movement of plant organs in response to the force of gravity is called?

Ans : Geotropism

· **281** Haptotropism means the movement of a plant organ induced by contact with a .....?

Ans : Foreign body

· **282** Growth movements in response to the stimulus of contact are called?

Ans : Thigmotropism

· **283** Growth movements in response to the stimulus of heat or cold is called?

Ans : thermotropism

· **284** Plant movement due to the alternation of day and night are called?

Ans : nyctinastic movement

· **285** Seismonastic movements are in response to .....?

Ans : touch or shock stimulus PLANT HORMONES 1) Flowering hormone - Florigen 2) Ripening hormone - Ethylene 3) Wound hormone - Traumatic acid 4) Stress hormone - Abscissic acid

· **286** Name the plant which produce ozone at the time of photosynthesis?

Ans : Thulsi

· **287** Name the plant that show seismonastic movement?

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Ans : Touch me not plant (Mimosa plant)

· **288** The transfer of pollen grains from the anther to the stigma is called?

Ans : pollination

· **289** What is hydrophily?

Ans : Pollination by water

· **290** Pollination by bat is called?

Ans : Chiropterophily

· **291** Pollination between two flowers of one plant is called .....?

Ans : gytanogamy

· **292** Pollination by insects is called .....?

Ans : Entomophily

· **293** What is zoophily?

Ans : Pollination by animals

· **294** Pollination by birds?

Ans : Orinithophily

· **295** The chief pollinators of agrihorticulture crops?

Ans : bees

· **296** Seed dispersal in coconut occurs through .....?

Ans : water

· **297** In muringa; seed dispersal takes place through .....?

Ans : wind

· **298** In Vallisnaria pollination occurs by?

Ans : Water

· **299** Why are night blooming flowers white in colour?

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Ans : To become discernible to pollinators

· **300** What is Anemophily?

Ans : It is the pollination by wind ALGAE AND FUNGI

· **301** The multicellular fungi is?

Ans : Pencillium

· **302** Name two antibiotic drugs obtained from actinomycetes?

Ans : Streptomycin and erythromycin

· **303** What is hyphae?

Ans : The individual mycelium filaments is hyphae

· **304** The land plant without chlorophyll?

Ans : Mushroom

· **305** Phaeophyta is?

Ans : Brown Algae

· **306** The brownish colour of Brown Algae is due to presence of ..... pigment?

Ans : Xanthophyll

· **307** Which fungi is a good source of the B-group Vitamins?

Ans : Yeast

· **308** Which is the floating brown algae that covers thousands of hectares of sea in Atlantic ocean?

Ans : Sargassum

· **309** Flagellate cells are absent in which algae?

Ans : Red algae

· **310** Where does protonema stage occur?

Ans : Mosses

· **311** Which large; unicellular green algae is commonly called umbrella plant?

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Ans : Acetabularia

· **312** Which green algae is parasitic on tea plant?

Ans : Cephaleuros

· **313** Which sea lettuce is an edible green algae?

Ans : Ulva

· **314** Write the scientific name of an algae with ribbon shaped chloroplasts:?

Ans : Spirogyra

· **315** What are the well known fungi?

Ans : Mushrooms

· **316** How is stem bleeding of sugarcane caused?

Ans : fungi

· **317** What is the common black or bread mould?

Ans : Rhizopus

· **318** Which fungi are highly poisonous?

Ans : Amanita

· **319** Which plant act as pollution indicator?

Ans : Lichens

· **320** Fungal Diseases are?

Ans : Ringworm; Tinea; Athelete's foot; Madura foot; Dhobie itch

· **321** Viral Diseasesare?

Ans : AIDS; Influensa; Jaundice; Chicken pox; Small-pox; Measles; Mumps; Rabies

· **322** Protozoan diseases are?

Ans : Malaria; sleeping sickness; amoebiasis.

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• **323** The alkaloid present in Tea?

Ans : Theine

• **324** What is the importance of Serpentine?

Ans : It is used to treat hypertension

• **325** What is the chief food factor contained in cereals?

Ans : Starch

• **326** What is Margarine?

Ans : Vegetable butter

• **327** What are the seeds of pulses rich in?

Ans : Protein

• **328** Which is the cashew centre of Kerala?

Ans : Kollam

• **329** Write an example for unsaturated oil:?

Ans : Groundnut oil

• **330** From where Vincistin; a wonder drug used to treat blood cancer is extracted?

Ans : Vinca Rosea

• **331** From where is Butyl obtained; for the treatment of AIDS?

Ans : Black mulberry

• **332** Which are the high yielding varieties of wheat?

Ans : Kalyan Sona; Girija and Sonalika

• **333** Name two vegetable oils which are used as medicine:?

Ans : Caster oil; Mustard oil

• **334** What is the richest source in Rice?

Ans : Carbohydrate

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· **335** Which is the ester that gives pineapple its pleasant smell?

Ans : Ethyne Butyrate

· **336** From where is clove oil obtained?

Ans : Clove oil is obtained from the flower buds of Syzygium aromaticum

· **337** From which plant asafoetida is prepared?

Ans : Ferula foetida

· **338** Which is the term used for describing the manifold increase in India's farm production and productivity?

Ans : Green Revolution

· **339** Which is the harmful substance present in the tobacco?

Ans : Nicotine

· **340** Which acid is contained in vegetable oils?

Ans : Stearic acid

· **341** Which is the symbol of quality in agricultural products?

Ans : Agmark

· **342** Cotton fibre is obtained from which part of the plant?

Ans : Fruit

· **343** Which food crop has the maximum content of proteins?

Ans : Soyabean

· **344** Which element is depleted most from the soil after a crop is harvested?

Ans : Potassium

· **345** What is the type of cultivation practised on mountains and hills?

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Ans : Terrace cultivation ANIMAL KINGDOM

- **346** Which living animal has the longest life span?

Ans : Tortoise

- **347** What is a flying fox?

Ans : bat

- **348** Which is the largest marsupical?

Ans : Red Kangaroo

- **349** What is a viviparous animal?

Ans : A viviparous animal is one that gives birth to young ones

- **350** What is Murrah?

Ans : It is a hybrid buffalo which is a high milk producer

- **351** Which is the tallest living animal?

Ans : Giraffe

- **352** Which is the biggest land animal?

Ans : African bush elephant

- **353** What is Pangolin?

Ans : It is a mammal which does not have teeth

- **354** Which is the animal that never drinks water?

Ans : Kangaroo rat

- **355** What is Herbivorous?

Ans : Herbivorus is the term used to describe plant eating animals

- **356** Which are the mammal that lay eggs?

Ans : Spiny anteaters and the duck - billed platypus

- **357** Which is the animal that has a tongue longer than its body?

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Ans : Chameleon

· **358** The aquatic animal with the most developed intelligence?

Ans : Dolphin

· **359** Who is considered to be the father of Green Revolution?

Ans : Dr.Norman E. Borlaug

· **360** Animals having four feet are called?

Ans : Quadruped

· **361** An animal which eats human flesh?

Ans : Feline

· **362** Flesh eating animals are called what?

Ans : Carnivores

· **363** Name the South American animal which is camel - like but short statured:?

Ans : Llama

· **364** How long does a Dolphin sleep?

Ans : From 30 seconds to 5 minutes

· **365** Dog lies down to sleep only after observing the surrounding. Why?

Ans : The dog lies against the direction of the wind so as to detect the approach of the enemy.

· **366** Which is the world's heaviest snake?

Ans : The South American Anaconda

· **367** Which; animal produces the biggest baby?

Ans : Blue whale

· **368** Which animal has the largest known eye in the animal kingdom?

Ans : Gaint squid

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· **369** Give two example of unicellular organisms:?

Ans : Amoeba; Paramoecium

· **370** What are animals belonging to Phylum Annelida commonly known?

Ans : Segmented worms

· **371** Animal having the thickest skin?

Ans : The whale shark

· **372** What is the ultimate source of energy for a biosphere?

Ans : Solar Energy

· **373** This small animal has a suicidal tendency; often thousands of them commit mass suicide. Which is the animal?

Ans : The lemming

· **374** What is the difference between a hare and a rabbit?

Ans : Hares have longer hind legs and longer ears than rabbits

· **375** How many toes does a camel have on each foot?

Ans : Two toes in each foot

· **376** Which is the largest of apes?

Ans : The mountain gorilla of West Africa

· **377** Which animals are called odd - toed ungulates?

Ans : Horses; asses and zebras

· **378** The animals living on the sea floor are called?

Ans : Benthic

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· **379** The animals that swim about in sea are called?

Ans : Pelagic

· **380** What is the level of structural organisation in Hydra and Jelly fishes?

Ans : Tissue

· **381** Which is the sedentary animal having a free swimming larva?

Ans : Sponge

· **382** Which animal is with a nervous system but without a ganglionated brain?

Ans : Coelenterates

· **383** Which animal is devoid of a skeleton?

Ans : Jelly fish

· **384** Which animal best shows Regeneration?

Ans : Planaria

· **385** What are the excretory structures of flat worms?

Ans : Flame cells

· **386** What is the peculiarity of flat worms?

Ans : Hermaphrodite

· **387** Round worms belong to which phylum?

Ans : Nemathelminthes

· **388** Which is the parasitic roundworm that spread by mosquito?

Ans : Filaria worm

· **389** Round worms are triploblastic. the body cavity of round worms are?

Ans : Pseudocoel

· **390** What are pathogens?

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Ans : Disease causing microbes

· **391** Name the intestinal parasites that feed on blood and tissues?

Ans : Hook worm VERTEBRATES

· **392** What are Vertebrates?

Ans : Animals which have backbone are called vertebrates

· **393** What is the fat of whale called?

Ans : Blubber

· **394** What are the cold-blooded vertebrates that live both on land and in water called?

Ans : Amphibian

· **395** Which animal is the fastest on foot?

Ans : Cheetah

· **396** Which is the only cat that cannot retract its claws?

Ans : Cheetah

· **397** Name the amphibian which is commonly called as tiger salamander?

Ans : Ambystoma

· **398** Name a reptile which can change the colour of its skin?

Ans : Chameleon

· **399** What is the name of an extinct bird which shares the characters of both reptiles and aves?

Ans : Archaeopteryx

· **400** What is the zoological name of Tiger?

Ans : Panthera tigris

· **401** Which reptiles are called "limbless lizard"?

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Ans : Snakes

· **402** What is the hybrid you obtain when a cross takes place between female donkey and a male horse?

Ans : Hinny

· **403** Which animal is called "ship of desert"?

Ans : Camel

· **404** The name given to a camel with two humps?

Ans : A bactrian

· **405** Name the fish which is called as sea-horse:?

Ans : Hippocampus

· **406** What is the biological name of Indian Cobra?

Ans : Naja naja

· **407** Which group of vertebrates has single circulation of blood?

Ans : Fish

· **408** Which sea animal is considered to be a link between the vertebrates and invertebrates?

Ans : Amphioxus

· **409** How many chambers are seen in fish's heart?

Ans : Two Chambers

· **410** Fishes respire by?

Ans : Gills

· **411** What type of whales are called Baleen whales?

Ans : The whales without teeth are called baleen whales

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- **412** What are Arboreal animals?

Ans : Organism that live on trees and branches are called Arboreal animals eg: monkey

- **413** What are oviparous animals?

Ans : The egg laying animals are called oviparous; eg: Fish. Birds

- **414** What is Broody hen?

Ans : An egg laying bird is called broody hen. INVERTEBRATES

- **415** Name the insect which carries the parasite that causes sleeping sickness?

Ans : Tse tse fly

- **416** What are invertebrates?

Ans : Animals which do not have backbone are called Invertebrates

- **417** What are the larvae of house - flies called?

Ans : Maggots

- **418** What is an animal having eight limbs called?

Ans : Octopous

- **419** On which plants do the cochineal insects feed?

Ans : Cacti

- **420** What is the excretory organ of earth worm?

Ans : Nephridia

- **421** What is the respiratory organ of insect?

Ans : Tracheal tubes

- **422** What are the larvae of butterflies called?

Ans : Caterpillar

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• **423** What kind of animals are called 'Apivorous'?

Ans : Bee - eating animals

• **424** What do you call a segment of tapeworm?

Ans : Proglottids

• **425** What is the function of flame cells?

Ans : Excretion

• **426** What is the locomotor organ of Euglena?

Ans : Flagella

• **427** What is the common name of Dentalium?

Ans : Tusk shell

• **428** What is the locomotor organ of Amoeba?

Ans : Pseudopodia

• **429** Name the anticoagulant present in leech?

Ans : Hirudin

• **430** Name an animal that contains chlorophyll?

Ans : Euglena

• **431** Which bird has no wings at all?

Ans : Kiwi

• **432** Name the largest animal in the world:?

Ans : Blue whale

• **433** Which animal is commonly called Devil fish?

Ans : Octopus

• **434** Which insect is harmful to man both healthwise and economy wise'?

Ans : Cockroach

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- **435** What is the common name of sepia?

Ans : Cuttle fish (Mollusca)

- **436** What is the larva of starfish called?

Ans : Bipinnaria larva

- **437** What is a cocoon?

Ans : The butterfly-larva grows to a certain stage and then gets surrounded by a protective covering called cocoon.

- **438** What are Drones?

Ans : Drones are the male honey bees

- **439** Name the different stages in the life cycle of Butterfly:?

Ans : Egg-larva-pupa-adult

- **440** Which parasite is the cause of sleeping sickness?

Ans : The parasite called Trypanosome

- **441** What are Annelid worms?

Ans : Annelid worms are segmented worms

- **442** Write examples of segmented worms:?

Ans : Bristle worms; Earth worms; Leeches

- **443** How many eyes do the spiders have?

Ans : Most spiders have eight eyes. In two rows of four

- **444** What are Leeches?

Ans : Leeches are blood sucking worms

- **445** Which insect has the largest wingspan?

Ans : Atlas moth

- **446** Which parasite causes Malaria?

Ans : Plasmodium

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• **447** Which is the bird that eats stones?

Ans : Ostrich

• **448** Which insect builds itself a house?

Ans : Caddis flies

• **449** Which insect is seen dancing in a swarm over or near water?

Ans : Mayfly

• **450** Which insect has the largest population on earth?

Ans : wasp

• **451** Which insect is mostly a nightflier?

Ans : Moth

• **452** Which insect loves books?

Ans : Silver fish (Arthropoda) BIRDS

• **453** Which bird includes its egg on its feet?

Ans : The Emperor Penguin

• **454** Which bird is the fastest moving?

Ans : Falcon

• **455** Which is the bird that can fly backwards?

Ans : The Humming bird

• **456** Which birds 'fly' under water?

Ans : Penguin

• **457** Which bird does not build its nest?

Ans : The Cuckoo

• **458** Which is the largest water fowl?

Ans : Swan

• **459** Which is the smallest bird?

Ans : Humming bird

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· **460** Which is the smallest water fowl?

Ans : Duck

· **461** Which is the most intelligent bird?

Ans : Blue tit

· **462** Which bird weighs less than an insect?

Ans : Humming bird

· **463** Name the large; flightless bird of Australia:?

Ans : The emu

· **464** Which is the flying mammal?

Ans : The Bat

· **465** Which bird locates its prey by smell?

Ans : Kiwi

· **466** Which is the most domestic and common bird?

Ans : Chicken

· **467** Which bird has a melodious; flute like call?

Ans : Oriole

· **468** Which bird is nocturnal in habit?

Ans : Nightjar

· **469** Which type of bird is often seen in a party of seven?

Ans : Babbler

· **470** Name the bird that is expert in eating mosquitoes:?

Ans : European Reed Warbler

· **471** Which is the smallest amphibian in the world?

Ans : Newts (salamanders)

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- **472** What are the difference between the frog and the toad?

Ans : The frogs are smooth - skinned while the toads are warty

- **473** Where do the amphibians lay their eggs?

Ans : Amphibians lay their eggs in ponds and slow moving streams

- **474** Which is the smallest reptile?

Ans : Tiny gecko

- **475** Which is the largest frog in the world?

Ans : Rare Goliath Frog

- **476** Name some common reptiles:?

Ans : Crocodiles; Turtles; Lizards and Snakes

- **477** What is the gecko?

Ans : Ordinary nocturnal lizard

- **478** Which is the most venomous snake?

Ans : Sea snake

- **479** The first snake park in India is in?

Ans : Chennai

- **480** The land where snakes are absent?

Ans : Newzealand

- **481** What are the three major types of fishes?

Ans : Jawless fishes; rays and sharks

- **482** Which fish like organism has three hearts?

Ans : The cuttle fish (Mollusca)

- **483** Which fishes are called the man eaters?

Ans : The piranhas

- **484** What is called an electric eel?

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Ans : The eels which are found in S. American rivers can discharge almost 400-500 volts from its tail

- **485** What is Portuguese man-ofwar?

Ans : It is a jelly fish like floating colony of polyps

- **486** What is seal?

Ans : Seal is an aquatic mammal found in coastal waters

- **487** How long can a sperm whale hold its breath during a dive?

Ans : 2 hours

- **488** The air - breathing fish?

Ans : Mud – Skipper

- **489** Who discovered Aspirin?

Ans : Felix Hofman

- **490** Who developed the Polio Vaccine?

Ans : Jonas Salk

- **491** Who discovered Penicillin?

Ans : Alexander Flemming

- **492** Who discovered the bacterium which causes anthrax?

Ans : Robert Koch

- **493** Who first discovered cells?

Ans : Robert Hooke

- **494** Who discovered Insulin?

Ans : Sir Frederick Grant Banting and J.J.R. Macleod

- **495** Who wrote the book "Origin of Species"?

Ans : Charles Darwin

- **496** Who proposed the term "Species"?

Ans : John Ray In 17th century

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· **497** Who proposed the theory of Biogenesis?

Ans : Louis Pasteur

· **498** Who coined the term "Ecology"?

Ans : German biologist Ernst Haekel

· **499** Name the instrument used for measuring atmospheric pressure:?

Ans : Barometer

· **500** The instrument used by the doctors to hear and analyses the sound of lungs and heart?

Ans : Stethoscope

· **501** Which organism covers the sea for miles together and is a wonderful sight to see?

Ans : Jelly fish (coelenterata

· **502** The instrument used for measuring the relative density of milk?

Ans : Lactometer

· **503** Name the scientist who proposed the theory of mutation:?

Ans : Hugo de Vries

· **504** Who discovered Malarial parasite?

Ans : Ronald Ross

· **505** Who discovered the plant cell?

Ans : Schleden and Robert Hook

· **506** Who is the father of Taxonomy?

Ans : Carolus Linnaeus

· **507** Who is the father of Eugenics?

Ans : Francis Galton

· **508** Who was the inventor of open Heart Surgery?

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Ans : Walton Lillehel

· **509** Who was the inventer of oral Polio vaccine?

Ans : Albert Sabin

· **510** Who was the inventor of Cancer?

Ans : Robert Weinbery

· **511** Who produced the artificial gene?

Ans : H.G. Khorana

· **512** Who was the inventor of D.D.T?

Ans : Paul Muller

· **513** Who was the inventor of Heart Transplant Surgery?

Ans : Christian Barnard

· **514** World's first artificial heart transplantation surgery was done by?

Ans : William de Vries in 1983

· **515** World's first artificial heart 'Jarvic-7' is designed by?

Ans : Robert Jarvic

· **516** Who was the inventor of Insulin for Diabetes?

Ans : Banting & Best

· **517** Who was the inventor of Rh-factor?

Ans : Karl Landsteiner

· **518** Who was the inventor of Synthetic Antigens?

Ans : Landsteiner

· **519** Who discovered LSD?

Ans : Hoff man

· **520** Who invented antipolio vaccine?

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Ans : Jonas E. Salk (1955)

· **521** Who was the inventor of blood circulation?

Ans : William Harvey

· **522** Who was the inventor of Cholera; T.B. Germs?

Ans : Robert Koch THE HUMAN BODY

· **523** How many bones are there in the Spinal Cord?

Ans : 33 bones

· **524** Which gland in the human body is referred to as the gland of emergency with triple F-fight; flight and fright?

Ans : Adrenal gland. It is situated above the kidneys

· **525** What name is given to two tubes which lead from the wind pipe to the lungs?

Ans : Bronchi

· **526** Which gland in the body secretes the hormone cortisone?

Ans : The adrenal gland

· **527** Which part of the human body is affected by the disease 'Glaucoma'?

Ans : Eyes

· **528** Which prevents the bleeding of gums?

Ans : Ascorbic acid

· **529** Bones; connected with head?

Ans : Skull

· **530** Bones connected with neck?

Ans : Atlas

· **531** What ailment is caused by the blockage of blood vessel by a blood clot?

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Ans : Thrombosis

· **532** What is the average heart-beat in a human body per minute?

Ans : 72

· **533** What causes Pneumonia?

Ans : Bacteria

· **534** What does the nervous system contain?

Ans : It contains the brain; nerves and the spinal cord

· **535** How many bones are present in human body?

Ans : 206 bones

· **536** Which gland is associated with Goitre?

Ans : Thyroid gland

· **537** Which is the smallest bone in the human body?

Ans : Stapes

· **538** The centre inside the heart which induces heart beats.?

Ans : Pacemaker

· **539** What are the three types of muscles found in human body?

Ans : Voluntary; involuntary and cardiac muscles

· **540** Which gland produces hormones in human body?

Ans : Endocrine glands

· **541** Which gland controls the endocrine gland?

Ans : Pituitary gland

· **542** Which is the longest bone in the human body?

Ans : The thigh bone - femur

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· **543** When does a new born baby first breathe?

Ans : When it begins to cry

· **544** Name the muscles by which heart is made?

Ans : Cardiac muscles

· **545** Which liquid is present in the membrane covering the heart?

Ans : Pericardial fluid

· **546** The chemical which reduces the rate of heart beat?

Ans : Acetyl choline

· **547** Name the organ which is not affected by cancer?

Ans : Heart

· **548** An animal which possess heart in the head?

Ans : Prawn

· **549** What is meant by "identical twins"?

Ans : The babies born out of an ovum divided into two after fertilisation

· **550** Which gland produces the enzyme parathormone?

Ans : Parathyroid

· **551** Which substances regulate the chemical action in the body?

Ans : Enzyme

· **552** Which is the part of the brain that controls motor function?

Ans : Cerebellum Cortex

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· **553** Which is the thin membrane lining inside the heart?

Ans : Endocardium

· **554** The nervous system that controls the functioning of the body at sleep?

Ans : Autonomous Nervous System

· **555** The membrane that cover the heart?

Ans : Pericardium

· **556** What is the name given to the wave motion of small intestine?

Ans : Peristalsis

· **557** Which nerve carries impulses from the eye to the brain?

Ans : The optic nerve

· **558** Which is the first antibiotic?

Ans : Penicillin

· **559** What are chromosomes?

Ans : They are small thread-like bodies which are seen within nuclei during cell division

· **560** Which are the four main groups of blood?

Ans : They are A; B; AB; and O

· **561** Study of blood is known as?

Ans : Hematology

· **562** The scientist who discovered blood circulation?

Ans : William Harvy

· **563** The blood cell that is devoid of nucleus?

Ans : RBC

· **564** What is coagulation?

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Ans : The clotting of blood outside the body is called coagulation

· **565** Which enzymes are contained in pancreatic juice?

Ans : Trypsin; Amylase & Lipase

· **566** From where the blood cells are produced?

Ans : They are produced from the bone marrow

· **567** What is the normal temperature of the body?

Ans : 37° C or 98.4° F

· **568** Which is the structural and functional unit of the nervous system?

Ans : Neuron

· **569** Which is the enzyme that converts starch into maltose?

Ans : Ptyalin

· **570** What is the two upper chambers of the heart; receiving blood from the veins called?

Ans : Auricles

· **571** Which are the two lower chambers of the heart from which purified blood flows out?

Ans : Ventricles

· **572** Which teeth; is used for grinding?

Ans : Molars

· **573** Which gland in the human body; is present next to the brain?

Ans : Pineal

· **574** What is the pigment present in RBC?

Ans : Haemoglobin

· **575** Which gland produces the hormone thyroxine?

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Ans : Thyroid gland

· **576** What is the long tube like extension of neuron body?

Ans : Axon

· **577** Which structure is called pace maker of the heart?

Ans : S.A. node

· **578** The only vein which carry pure blood to the heart?

Ans : Pulmonary vein

· **579** The only artery that carry impure blood from the heart?

Ans : Pulmonary artery

· **580** Which blood vessels have valves in them?

Ans : Veins

· **581** The nerve that carries the impulses from the sense organs to the central nervous system?

Ans : Sensory nerve

· **582** Write an example of mixed nerve:?

Ans : Vagus nerve

· **583** Give the term for contraction and relaxation of heart:?

Ans : Systole; diastole

· **584** Which membrane connects the brain and spinal cord?

Ans : Meninges

· **585** Which part of the brain initiates all voluntary activities?

Ans : Cerebrum

· **586** What co-ordinates the muscle function?

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Ans : Cerebellum

· **587** Write an example for sensory nerve:?

Ans : Auditory nerve

· **588** What is caused due to the permanent damage caused to any part of brain tissues due to inadequate supply of blood?

Ans : Stroke

· **589** Which infectious disease affects the brain and the nerves?

Ans : Poliomyelitis

· **590** What are the fatty covering of some axons called?

Ans : Myelin sheath

· **591** Which nerves convey impulses from the brain and spinal cord to the other parts of the body?

Ans : Motor nerves

· **592** The narrow space which separates the axonites of a neuron and the dendrites of another neuron is called?

Ans : Synapse

· **593** Which chemical substance is secreted into the synaptic cleft?

Ans : Acetyl choline

· **594** What is called the protective covering of the brain?

Ans : Cranium

· **595** Name the transverse band of nervous tissues which joins the cerebral hemispheres which is separated by a median cleft:?

Ans : Corpus collosum

· **596** Which part acts as a relay station for the incoming and outgoing impulses to and from

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the cerebrum?

Ans : Thalamus

· **597** The part of brain where pain killers works?

Ans : Thalamus

· **598** Where is the two hormones secreted by the hypothalamus stored?

Ans : Pituitary

· **599** Which part of our body filter urea from blood?

Ans : Kidneys

· **600** What are the chief excretory organs of vertebrates?

Ans : Kidney

· **601** The path through which a stimulus passes in a reflex action?

Ans : Reflex arc

· **602** Loss of ability of the body or some parts of the body to move; respond to stimuli or function is?

Ans : Paralysis

· **603** What occurs when a blood vessel in the brain ruptures?

Ans : Cerebral haemorrhage

· **604** The colour of the skin is due to?

Ans : Melanin

· **605** The nitrogeneous waste produced in our body?

Ans : Urea

· **606** Which substance is very poisonous to the cells even in traces?

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Ans : Ammonia

· **607** Which blood vessel carries blood to the kidneys?

Ans : Renal artery

· **608** Which blood vessel takes away blood from the kidneys?

Ans : Renal vein

· **609** Each nephron open into a large tubule called?

Ans : Collecting duct

· **610** What are the components of urine?

Ans : Urine contains about 95% of water and 5% of urea; salts and other waste product

· **611** What do you mean by osmoregulation?

Ans : Regulation of the water content in the body of an organism is known as osmoregulation

· **612** What is ADH?

Ans : ADH is the antidiuretic hormone secreted by the pituitary gland which helps in osmo regulation.

· **613** What is the main symptom of diabetes insipidus?

Ans : The person suffering from diabetes insipidus loses plenty of water through his urine

· **614** What is nephritis?

Ans : Nephritis is the inflammation of the kidney

· **615** What is the functional unit of chromosome?

Ans : Gene

· **616** Name the instrument to record the brain waves:?

Ans : Electro Encephalo Graph

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· **617** Where in the body would you find 'carpals' and 'phalanges'?

Ans : They are bones in the hand

· **618** What is the 'fontanelle'?

Ans : A soft area of cartilage on a baby's head where the skull bones have not yet joined

· **619** Which tube begins from the kidney and opens into the urinary bladder?

Ans : Ureter

· **620** What is the bunch of capillaries seen inside the Bowman's capsule called?

Ans : Glomerulus

· **621** Deficiency of what causes the diabetes insipidus?

Ans : ADH

· **622** What is 'epidermis'?

Ans : The outermost layer of the skin

· **623** The deficiency of insulin causes a condition of?

Ans : Diabetes mellitus

· **624** What is formed when ammonia is combined with carbon dioxide?

Ans : Urea

· **625** What is the common name of Larynx?

Ans : Voice Box

· **626** Where is fat stored in our body?

Ans : Adipose tissue

· **627** Name the finger like projection present in the wall of small intestine meant for absorption?

Ans : Villi

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· **628** When is BCG vaccination to be given to a new born child?

Ans : Immediately after birth

· **629** What is formed when proteins are digested?

Ans : Amino acid

· **630** Which chief fuel is used by cells for the production of energy?

Ans : Glucose

· **631** What is the more common name for the 'patella'?

Ans : The knee - cap

· **632** What is the other name for the 'Scapula'?

Ans : Shoulder blade

· **633** Where in the body would you find the epiglottis?

Ans : In the throat

· **634** What is the fluid that lubricates and cushions the movable joints between the bones?

Ans : Synovial fluid

· **635** Name two types of photoreceptors present in the eye:?

Ans : Rods and cones

· **636** Which vitamin is responsible for anti-sterile activity?

Ans : Vitamine -E

· **637** Which prevents diseases in the human body?

Ans : White Blood Corpuscles

· **638** Tibia is a bone found in the :?

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Ans : Leg

· **639** Which mineral is present in greater proportion in bones?

Ans : Calcium

· **640** Which part of the human body is the disease pneumonia affected?

Ans : Lungs

· **641** Deficiency of which constituent is the case of dehydration?

Ans : Water

· **642** Which element is present in maximum amount in human body?

Ans : Oxygen

· **643** Which is the most abundant organic molecules in living organisms?

Ans : Proteins

· **644** Redblood corpuscles are formed in?

Ans : Bonemarrow

· **645** Where does cholera attack the body?

Ans : Small Intestine

· **646** Which part of the body controls the 'reflex action'?

Ans : Spinal cord

· **647** Name four basic types of tastes:?

Ans : Sweet; salty; sour and bitter

· **648** Which part of the brain controls thought; memory; intelligence etc.?

Ans : Cerebrum

· **649** Which organ secretes insulin?

Ans : Pancreas

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· **650** Which converts starch into maltose?

Ans : Saliva

· **651** Which is the largest sense organ of the human body?

Ans : Skin

· **652** Which blood group is known as 'universal donor'?

Ans : The 'O' group

· **653** Which blood group is called universal recepient?

Ans : The AB group

· **654** Which substance present in the skin is converted into Vitamin D by ultra violet radiations of the sun?

Ans : Ergosterol

· **655** The human organ that destroys the worn out or damaged red cells and produces lymphocytes?

Ans : Spleen

· **656** What is the life of a red blood cell?

Ans : The life of a red blood cell is 120 days

· **657** Which is the first bone of the vertebral column?

Ans : Atlas

· **658** Which is the second vertebral column?

Ans : Axis

· **659** Which is the largest and strongest vertebrae in the vertebral column?

Ans : Lumbar vertebrae

· **660** Number of spinal nerves in man?

Ans : 31 pairs

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· **661** Where is Rods and Cones present?

Ans : Retina

· **662** How is Myopia corrected?

Ans : Concave lens

· **663** How many cranial nerves are present in man?

Ans : 12 pairs

· **664** Which is the master gland of the body?

Ans : Pituitary gland

· **665** Which hormone helps in childbirth?

Ans : Oxytocin

· **666** What is the blood pressure of a normal adult man?

Ans : 120/80 mm Hg

· **667** Name a vestigial organ in the alimentary canal of man:?

Ans : Vermiform appendix

· **668** Which vitamin is produced inside the human body?

Ans : Vitamin-D

· **669** Bacteria residing in the intestine produce a particular vitamin called?

Ans : Vitamin K

· **670** Which enzyme works in an acidic medium?

Ans : Pepsin

· **671** Which material is essential for the formation of Red blood cells?

Ans : Folic acid

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· **672** Which gland helps to maintain the calcium content in blood?

Ans : Parathyroid

· **673** Which disease is caused by the infection of HIV virus?

Ans : AIDS

· **674** What is the name of the test for the detection of AIDS?

Ans : Eliza test

· **675** Which organ of human body store the digested sugar?

Ans : Liver

· **676** Where is bile produced?

Ans : Liver

· **677** Which is the largest-gland of the body?

Ans : Liver

· **678** Which organ is affected by cirrhosis?

Ans : Liver

· **679** Who developed Chemotherapy?

Ans : Paul Earling

· **680** Which is the branch of science that deals with the study of blood?

Ans : Haematology

· **681** Which is the single movable bone in the human skull?

Ans : Lower jaw bone

· **682** Which is the disease caused due to the lack of Vitamin B in human beings?

Ans : Beri-beri

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· **683** Which gland in the human body is popularly called Adam's Apple?

Ans : Thyroid gland

· **684** Trachoma is a disease affecting which organ?

Ans : Eye

· **685** How many bones are there in the human skull?

Ans : 22

· **686** How many ribs are there in the human body?

Ans : 24

· **687** Which is the membrane covering the cornea of the eye?

Ans : Conjunctiva

· **688** Which vitamin is needed for the formation of bones and teeth?

Ans : Vitamin D

· **689** In which form is Glucose stored in the liver?

Ans : Glycogen

· **690** Bones and teeth in the human body are made of which material?

Ans : Calcium phosphate

· **691** Which organ helps to process white blood cells; destroys old red blood cells and stores iron'?

Ans : Spleen

· **692** Which protein forms hair and nails?

Ans : Keratin

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· **693** What is the more common name for the tympanic membrane?

Ans : Ear drum

· **694** Which disease is known as 'bending disease'?

Ans : Chikun Guniya

· **695** Which disease is known as 'break bone disease'?

Ans : Dengue fever

· **696** Which is known as 'killer pneumonia'?

Ans : SARS (Severe Acute Respiratory Syndrome)

· **697** Malaria is also known as?

Ans : Black Water fever

· **698** Which organ is known as 'Grave yard in human body'?

Ans : Spleen

· **699** Malaria affects which organ?

Ans : Spleen

· **700** Which disease is caused by the deficiency of Vitamin-A?

Ans : Night blindness

· **701** Which is the vaccine against tuberculosis?

Ans : B.C.G Vaccine

· **702** What is the result found due to the deficiency of Vitamin K?

Ans : Extensive bleeding

· **703** Which disease is caused due to the deficiency of Vitamin D?

Ans : Rickets

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· **704** Which skin disease is formed due to the deficiency of Vitamin B2?

Ans : Dermatitis

· **705** Which disease is caused due to the deficiency of Vitamin B12?

Ans : Pernicious anaemia

· **706** Which disease affects the bone marrow and tissues which produce blood corpuscles?

Ans : Leukemia

· **707** The clinical condition caused by the deficiency of thyroxin in children is?

Ans : Cretinism

· **708** Which disease is caused from sexual contact?

Ans : Gonorrhoea

· **709** The Father of Medicine :?

Ans : Hippocrates

· **710** DISEASES CAUSED BY BACTERIA are?

Ans : Anthrax ; Meningitis ; Bacterial dysentry ; Paratyphoid Fever ; Bacterial pneumonia ; Plague ; Cholera ; Syphilis ; Diarrhoea ; Tetanus ; Diphtheria ; Tuberculosis ; Gonorrhoea ; Typhoid Fever ; Leprosy ; Whooping cough

· **711** What is the process of corneal transplantation called?

Ans : Keratoplasty

· **712** L-dopa is a drug to cure which disease?

Ans : Parkinson's disease

· **713** What is caused due to deficiency of Vitamin E?

Ans : Sterility in mammals

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· **714** Which disease is found in cereals and is caused by fungus?

Ans : Smut

· **715** What disease is caused by the deficiency of Vitamin 'C?

Ans : Scurvy

· **716** What is the source of Vitamin 'C'?

Ans : Fruits and green vegetables

· **717** Which Vitamins are fat soluble?

Ans : Vitamin D; Vitamin A; Vitamin E; Vitamin K

· **718** When the kidneys of a person are not working. Which treatment is administered?

Ans : Dialysis

· **719** What is Dyspepsia?

Ans : Indigestion

· **720** Write an example of a disease which affects Lungs:?

Ans : Tuberculosis

· **721** Where is the disease Meningitis affected?

Ans : Brain and Spinal Cord

· **722** Which is the lens used to correct Astigmatism?

Ans : Cylindrical lens

· **723** Where is Diptheria affected?

Ans : Throat

· **724** The part of the human body affected by Jaundice?

Ans : Liver

· **725** Which is the disease that affect the teeth and gum?

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Ans : Pyorrhoea

· **726** Where is paralysis affected?

Ans : Nerves

· **727** Oldest disease in the world?

Ans : Leprosy

· **728** The most common disease in the world?

Ans : Nasopharingitis (cold)

· **729** Which disease is respiratory in nature?

Ans : Emphysema

· **730** Name the enzyme present in tear that acts as a germicide:?

Ans : Lysozyme

· **731** Which is the disease caused by the acids in the digestive juices?

Ans : Peptic ulcer

· **732** Which is the lens used to correct long sight?

Ans : Convex lens

· **733** AIDS disease is confirmed through which test?

Ans : Western blot test

· **734** HIV is a ..... virus?

Ans : retro

· **735** Disease known as "sailors plague'?

Ans : scurvy

· **736** Which disease is caused by the deficiency of Vitamin-D?

Ans : Ricket

· **737** What is anthology?

Ans : Study of flowers

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· **738** What is Entomology?

Ans : It is a branch of zoology which deals with insects

· **739** What is Malacology?

Ans : The study of mollusca is termed as malacology

· **740** What is Herpetology?

Ans : The study of reptiles is known as Herpetology

· **741** What is plurology?

Ans : Study of lungs

· **742** What is hepatology?

Ans : Study of liver

· **743** What is Bionics?

Ans : Bionics is a branch of study dealing with sensory perception of birds

· **744** What is Ichthylogy?

Ans : The study of fishes is known as Ichthyology

· **745** What is the branch of zoology dealing with whales called?

Ans : Cetology

· **746** What is Conchology?

Ans : It is the science dealing with the study of shells

· **747** What does Trichology deal with?

Ans : It deals with the study of hair

· **748** What is the name of that branch of biology which is identifying; naming and classifying organisms?

Ans : Taxonomy

· **749** What is Dendrology?

Ans : The Study of trees are called dendrology

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· **750** What is Botany?

Ans : Study of plants

· **751** Study of seeds?

Ans : Spermology

· **752** What is agrostology?

Ans : The study of grasses is called

· **753** What is Histology?

Ans : Histology is the study of tissues (microscopic anatomy)

· **754** What is Physiology?

Ans : Physiology is the study of structure and functions of organisms

· **755** What is Osteology?

Ans : It is the study of bones

· **756** What is Cell Biology?

Ans : Cell Biology is the study of structure and reproduction of cells.

· **757** What do you mean by Genetics?

Ans : Genetics is the study of heredity and variations

· **758** What is the science of disease called?

Ans : Pathology

· **759** What name is given to the science of study of fungi?

Ans : Mycology

· **760** What is ecosystem?

Ans : The entire living community and non-living factors of the environment together form the ecosystem.

· **761** Science dealing with the study of structural and cultural traits of human beings?

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Ans : Anthropology

· **762** What is Exobiology?

Ans : It is the study of life in outer space

· **763** What is the study of drugs called?

Ans : Pharmacology

· **764** Which science deals with the cultivation of trees and vegetables?

Ans : Arboriculture

· **765** Botany deals with plants. Which science deals with the study of fossil plants?

Ans : Paleobotany

· **766** What does Neurology deal with?

Ans : It is the study of nervous system its functions and disorders

· **767** What is Phytogeny?

Ans : It deals with the origin and growth of plants

· **768** What is Dermatology?

Ans : It is the branch of science which deals with the diseases of the skin.

· **769** What is Ophthalmology?

Ans : Ophthalmology deals with the troubles and diseases of the eyes.

· **770** What is the name of the science dealing with the diseases of children?

Ans : Paediatrics

· **771** What is Psychiatry?

Ans : It is the branch of science dealing with the mental ailments

· **772** What does an Orthodentist specialise in?

Ans : He specialises in straightening crooked teeth

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· **773** What is Dactylography?

Ans : It is the study of finger prints for the purpose of identification

· **774** What is Chemotherapy?

Ans : It deals with the treatment of diseases by using chemical substances

· **775** What is Ecology?

Ans : Ecology is the study of inter -relationship of plants and animals with their environment

· **776** What is the term used to refer to the floor of the sea?

Ans : Benthic region

· **777** Name the biome which is characterised by the complete absence of trees?

Ans : Tundra

· **778** What is food chain?

Ans : The flow of energy from one trophic level to the other is called food chain.

· **779** What is Hibernation?

Ans : The winter sleep of an animal is called Hibernation.

· **780** What is Thermal pollution?

Ans : The pollution of water due to heat is called Thermal pollution.

· **781** What is Emigration?

Ans : It refers to the migration of individuals from an area to the outside

· **782** What is Lentic habitat?

Ans : It is the standing water system. It includes ponds; lakes; swamps etc.

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· **783** What is called the method of growing same crop year after year in a soil?

Ans : Monoculture

· **784** What is BOD?

Ans : Biochemical Oxygen Demand

· **785** What is Smog?

Ans : Smog is a pollutant. It is a combination of smoke and fog.

· **786** The concept of ecological pyramid was given by?

Ans : Elton

· **787** The association of two organisms in which both the partners are benefited?

Ans : Mutualism (symbiosis)

· **788** The type of relationship between two living organisms of different species; in which one is benefitted and neither is harmed?

Ans : Commensalism

· **789** Wild - life Institute of India is in?

Ans : Dehradun

· **790** Indian Institute of Forest Management is in?

Ans : Bhopal

· **791** India's first National Park was Hailey National Park; now known as?

Ans : Jim Corbet National Park

· **792** The total biosphere reserves in India?

Ans : 17

· **793** The ozone layer is found in?

Ans : Stratosphere

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· **794** Red data book is published by which agency?

Ans : IUCN (International Union of Conservation of Nature and Natural Resources)

· **795** The new name of IUCN is?

Ans : WCU (World Conservation Union)

· **796** Which gas is known as 'ozone eater'?

Ans : Chloroflurocarbon (CFC)

· **797** The green house gases are?

Ans : CO_2; CFC; CH_4; N_2O; SO_2 & O_3

· **798** Minamata disease occurred in Minamata bay of Japan due to which element in water?

Ans : Mercury

· **799** Itai - Itai disease is caused by?

Ans : Cadmium

· **800** Excess amount of fluoride in drinking water causes?

Ans : skeletal flurosis

· **801** According to WHO; the safe noise level for a city is?

Ans : 45dB

· **802** World environment day is celebrated on?

Ans : 5th June

· **803** International Earth day is celebrated?

Ans : 22nd April

· **804** Ozone day is celebrated on?

Ans : 16th September

· **805** World water day is on?

Ans : 22nd March

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- **806** Quantity of CO_2 in the atmosphere is?

Ans : 0.03%

- **807** Acid rain is due to?

Ans : Sulphur dioxide (SO_2) pollution

- **808** Taj Mahal is threatened due to the effect of?

Ans : SO_2

- **809** DDT is a non - biodegrable?

Ans : pollutant

- **810** Largest ecosystem of the world are?

Ans : Oceans

- **811** Which food factor is essential for the building of new tissues?

Ans : Protein

- **812** Which are the protective regulating food factors?

Ans : Minerals and Vitamins

- **813** How can we prevent goitre?

Ans : By using iodised salt

- **814** How are fats absorbed into the body?

Ans : Fats are absorbed to the body in the form of fatty acids and glycerol

- **815** Why Iodised salt is used with food?

Ans : To make up for the deficiency of iodine

- **816** Which element helps to strengthen the enamel in teeth?

Ans : Fluorine

- **817** What are the water soluble vitamins?

Ans : B and C

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· **818** Which factor is essential for the production of thyroxin?

Ans : Iodine

· **819** Which Vitamin is obtained from unpolished rice?

Ans : Thiamine

· **820** Name five vitamins produced in our body?

Ans : Biotin; Pandothenic acid; Niacin; Vitamin D and Vitamin K

· **821** What is clean energy?

Ans : Renewable energy is also known as clean energy because it cannot produce pollution. Renewable energy is energy which comes from natural resources such as sunlight; wind; rain; tides; and geothermal heat; which are renewable?

· **822** What is EUTROPHICATION?

Ans : When fresh water is artificially supplemented with nutrients; it results in abnormal increase in the growth of water plants. This is known as eutrophication. When organic matter exceeds the capacity of the micro- organisms in water that break down and recycle the organic matter; it encourages rapid growths of algae. This is known as algal bloom. When they die; the remains of algae add to the organic wastes already existing in water. Eventually water becomes deficient in oxygen. This increases BOD. Then anaerobic organisms attack the organic waste and create bad taste and foul smell. It leads to the death of all forms of life in the water body.

· **823** What is the fatty content that may get deposited inside the blood vessels?

Ans : Cholestrol

· **824** Which are the two components of fat?

Ans : Fatty acid and glycerol www.latestcarernews.com

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· **825** The excessive intake of Vitamins to the body causes a condition?

Ans : Hypervitaminosis

· **826** Which vitamin is essential for the proper functioning of the reproductive system?

Ans : Vitamin E

· **827** What are the functions of niacin?

Ans : Niacin is essential for growth; carbohydrate metabolism; proper functioning of stomach; intestine and nervous system.

· **828** Which vitamin directly helps the absorption of calcium?

Ans : Vitamin D

· **829** Which causes the deficiency of vitamin A in the diet?

Ans : Eye disorder

· **830** The deficiency of iron in the diet causes?

Ans : Anaemia

· **831** What are the protective and regulating food factors?

Ans : Minerals and vitamins

· **832** Which mineral element present in the red blood cells helps the transport of oxygen?

Ans : Iron

· **833** The disease caused by the deficiency of nicotinic acid?

Ans : Pellagra

· **834** The disease caused by the deficiency of Vitamin-A?

Ans : Xerophthalmia

· **835** The first artifically produced vitamin is?

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Ans : Vitamin C

· **836** Deficiency of which vitamin increases the period of wound healing?

Ans : Vitamin C

· **837** The rich source of Vitamin-C?

Ans : Lemon

· **838** Haemorrhage is caused by?

Ans : Vitamin K

· **839** The energy of food measured in terms of heat units is?

Ans : Calorie

· **840** Disease caused by the excess intake of fluorine?

Ans : Flurosis

· **841** Which substances acts like a fuel in driving the body?

Ans : Carbohydrates

· **842** Proteins are made up of which substance?

Ans : Amino Acids

· **843** Kwashirokor is a disease caused by scarcity of?

Ans : proteins

· **844** What is health?

Ans : Health is a general state of person's physical; mental and social well being

· **845** Expand AIDS :?

Ans : Acquired Immuno Deficiency Syndrome

· **846** What is Amniocentesis?

Ans : It is a technique used to determine the sex of the unborn child

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· **847** The substance which gives yellow colour to urine?

Ans : urochrom

· **848** The condition in which both kidneys fail to work is known as?

Ans : uremia

· **849** Presence of blood in urine is known as?

Ans : haematurea

· **850** Expand the word BCG?

Ans : Bacillus Calmette Guerin

· **851** Which bacterium causes cholera?

Ans : Vibrio cholerae

· **852** RH - factor was first discovered in which animal?

Ans : Monkey

· **853** Dengu fever is caused by?

Ans : Virus

· **854** What is the causative agent of tuberculosis?

Ans : Mycobacterium tuberculae

· **855** What is the common name of whooping cough?

Ans : Pertussis

· **856** What is DPT?

Ans : Diphtheria; Pertussis; Tetanus

· **857** Which is caused by corynebacterium?

Ans : Diphtheria

· **858** What are cancer causing genes called?

Ans : Oncogenes

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· **859** Which causes the presence of an extra X-chromosome in male?

Ans : Klinefelter's syndrome

· **860** Syphilis is caused by?

Ans : Treponema pallidum

· **861** Spreading of cancerous tumour to different organs is called?

Ans : Metastasis

· **862** Which causes amoebic dysentery?

Ans : Entamoeba histolytica

· **863** What is the main protein type found in egg white?

Ans : Ovalbumin

· **864** Deficiency of which element causes pernicious anaemia?

Ans : Cobalt

· **865** The yellow colour of urine is due to?

Ans : Urochrome

· **866** Amnesia is related to?

Ans : loss of memory

· **867** Which virus is responsible for swine flue?

Ans : H1N1

· **868** World AIDS Day?

Ans : December 1st

· **869** What is the common name for carcinoma?

Ans : Cancer

· **870** Ordinary table salt is sodium chloride. What is baking soda?

Ans : Sodium bicarbonate

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· **871** Ozone hole refers to?

Ans : decrease in thickness of ozone layer in stratosphere

· **872** Pine; fir; spruce; cedar; larch and cypress are the famous timber-yielding plants of which several also occur widely in the hilly regions of India. All these belong to?

Ans : gymnosperms

· **873** Pollination is best defined as?

Ans : transfer of pollen from anther to stigma

· **874** Plants receive their nutrients mainly from?

Ans : soil

· **875** Movement of cell against concentration gradient is called?

Ans : active transport

· **876** Photosynthesis generally takes place in which parts of the plant?

Ans : Leaf and other chloroplast bearing parts

· **877** Most fish do not sink in water because of the presence of: swim bladder; air bladder; air sacs; air in spongy bones?

Ans : I and II are correct

· **878** Plants synthesis protein from?

Ans : amino acids

· **879** Plants absorb dissolved nitrates from soil and convert them into?

Ans : free nitrogen

· **880** Out of 900 reported species of living gymnosperms; conifers are represented by about 500 species; About 2;50;000 species of angiosperms (flowering plants) have also been reported in the world. The vast and dominant

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woodlands in Europe; Asia; North America and mountains such as Himalayas are wooded with?

Ans : only conifers

· **881** Plants absorb most part of water needed by them through their?

Ans : root hairs

· **882** Photo-oxidation is?

Ans : All of the above

· **883** Process of cell division can take place by?

Ans : mitosis

· **884** Most highly intelligent mammals are?

Ans : dolphins

· **885** Plant development is influenced by?

Ans : quality; quantity and duration of light

· **886** Prokaryotic cells lack?

Ans : All of these

· **887** Photosynthesis takes place faster in?

Ans : white light

· **888** Nucleus; the genetic material containing rounded body in each cell; was first discovered in 1831 by?

Ans : Robert Brown

· **889** Primary phloem develops from?

Ans : provascular tissue

· **890** Other than spreading malaria; anopheles mosquitoes are also vectors of?

Ans : filariasis

· **891** Pyorrhoea is a disease of the?

Ans : gums

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· **892** O2 released in the process of photosynthesis comes from?

Ans : water

· **893** Placenta is the structure formed?

Ans : by the union of foetal and uterine tissue

· **894** Plants hormone that induces cell division is?

Ans : kinins

· **895** Neurospora is used as genetic material because?

Ans : it has short life cycle of 10 days

· **896** Phloem is a tissue found in?

Ans : plants

· **897** N2 content is kept constant in the biosphere due to?

Ans : nitrogen cycle

· **898** out of proteins; lipids and carbohydrates present in a cell membrane; what is true?

Ans : Carbohydrates are minimum

· **899** Potato is a modified form (outgrowth) of?

Ans : stem

· **900** Prothrombin which helps in clotting of blood is released by?

Ans : blood platelets

· **901** Myopia is connected with?

Ans : eyes

· **902** Most of the red; blue and purple colours of plants are due to a pigment called?

Ans : anthocyanin

· **903** Plants developing in dry conditions are?

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Ans : xerophytes

· **904** Plants growing on sand are called as?

Ans : psammophytes

· **905** Our skin; when exposed to excess sunlight; becomes dark. This is because our skin pigments called?

Ans : melanin

· **906** Ramapithecus and Cro-Magnon man are considered?

Ans : ancestors of modern man

· **907** Normal adult human male has?

Ans : 14 gram of haemoglobin/100 gram of blood

· **908** Plants wilt due to excess of?

Ans : transpiration

· **909** Monotremes are unique mammals because they?

Ans : lay eggs

· **910** Poison glands of snakes are homologous to?

Ans : salivary glands of vertebrates

· **911** Radical vascular bundles are those in which?

Ans : xylem and phloem occur on the different radii

· **912** Plant bends towards the source of light on account of the movement of curvature known as?

Ans : phototropism

· **913** Plant have ____ while animals lack it.?

Ans : cellulose

· **914** Osmosis is the flow of solution from higher concentration to a solution of lower concentration through a semi permeable

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membrane. What is incorrect in this statement?

Ans : The flow of solution is not possible through semi permeable membrane

· **915** Photosynthesis is a process?

Ans : reductive; endergonic and anabolic

· **916** Pigmentation of skin is due to?

Ans : melanocytes

· **917** Norepinephrine increases?

Ans : blood pressure

· **918** Night blindness is cause by lack of which vitamin?

Ans : Vitamin A

· **919** Monocot root differs from dicot root in having?

Ans : well developed pith

· **920** Radioactivity is a phenomenon of the spontaneous emission of?

Ans : All of the above

· **921** Organic Substances which; in very small amounts; control growth and development called?

Ans : hormones

· **922** Our major foods; fibres; spices; fruits and beverage crops are?

Ans : flowering plants

· **923** Movements due to light are shown by?

Ans : flowering plants

· **924** Outer covering of virus made up of protein is?

Ans : capsid

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· **925** Radish is a?

Ans : modified root

· **926** Most common disease of poultry in India is?

Ans : ranikhet

· **927** Most abundant tissues of our body are?

Ans : connective

· **928** Mumps is a disease caused by?

Ans : virus

· **929** Rain water helps to increase the ____ to some extent.?

Ans : calcium contents

· **930** Number of chromosomes in Down's syndrome is?

Ans : 47

· **931** Plants are killed in winter by frost?

Ans : because of desiccation and mechanical damage to the tissues

· **932** Pulses are a good source of?

Ans : proteins

· **933** Oxygen in our blood is transported by a protein named?

Ans : haemoglobin

· **934** Nymph is the name of young one of?

Ans : cockroach

· **935** Plants that grow under average temperature and moisture are called?

Ans : mesophytes

· **936** Oxyreductases; transferases; hydrolases; lyases; isomerases and ligases are all classes

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of?

Ans : enzymes

· **937** Mutation is?

Ans : a change that is inherited

· **938** Pollination by wind is called?

Ans : anemophily

· **939** Pollen grains in plants are produced in?

Ans : flower

· **940** Ptyalin is an enzyme produced in the?

Ans : salivary glands

· **941** Mycobacterium leprae causes leprosy; Corynebacterium diphtheria causes diphtheria and Vibrio comma causes?

Ans : cholera.

CHEMISTRY

· **1** Father of Chemistry?

Ans : Robert Boyle

· **2** The author of the book 'Sceptical Chymist' is?

Ans : Robert Boyle

· **3** Father of of Indian Chemistry?

Ans : P.C. Roy

· **4** Father of Organic Chemistry?

Ans : Friedrich Wohler

· **5** Ancient Chemistry is known as?

Ans : Alchemy

· **6** Ancient Chemists were known as?

Ans : Alchemists

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· **7** The scientist known as the father of Soda pop?

Ans : Joseph Priestly

· **8** International year of chemistry was?

Ans : 2011

· **9** New methods used in chemistry which aim to reduce pollution are called?

Ans : Green Chemistry

· **10** The term Green 'Chemistry was coined by?

Ans : Paul. T. Anastas

· **11** The concept dual nature of Matter was put forward by?

Ans : Louis de-Broglie

· **12** The construction of electron microscope was based on?

Ans : Dual Nature of Matter

· **13** The dual nature of electrons was experimentally proved by?

Ans : I.H. Germer

· **14** Basic unit of Chemistry?

Ans : Atom

· **15** Smallest units of a matter?

Ans : Atom

· **16** Atom was derived from a Greek word?

Ans : 'Atomos' (means indivisible)

· **17** Atom was discovered by John?

Ans : Dalton

· **18** Law of Multiple Proportion was put forward by?

Ans : John Dalton

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- **19** The term 'atom' was coined by?

Ans : Ostwald

- **20** The fundamental particles of an atom?

Ans : Proton; Electron and Neutron

- **21** The central part of an atom is?

Ans : Nucleus

- **22** The sub atomic particles of Nucleus are?

Ans : Protons and Neutrons

- **23** Heaviest sub atomic particle us?

Ans : Neutron

- **24** Lightest sub atomic particle is?

Ans : Electron

- **25** Moving particle of an atom is?

Ans : Electron

- **26** The charge of an Electron is?

Ans : Negative

- **27** Protons and Neutrons are collectively known as?

Ans : Nucleons

- **28** Chemical property of a substance is determined by?

Ans : Electrons

- **29** The smallest atom is?

Ans : Helium (He)

- **30** The simplest atom is?

Ans : Hydrogen (H)

- **31** Biggest known atom is?

Ans : Francium (Fr)

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- **32** The unit of measuring mass of an atom is?

Ans : Atomic Mass Unit (amu)

- **33** 1 atomic mass unit is equal to?

Ans : 1.6605 x 10^-27 Kg

- **34** The element used to find amu?

Ans : Carbon-12

- **35** Electron is discovered by?

Ans : J.J. Thomson

- **36** The name Electron was proposed by?

Ans : Stoney

- **37** Charge of an electron?

Ans : 1.6 x 10^-19C (determined by Millikan)

- **38** Mass of electron?

Ans : 9.1 x 10^-31 kg

- **39** Dual nature of electron?

Ans : Louis-de-broglie

- **40** Proton was discovered by?

Ans : Ernest Rutherford

- **41** The identity card of an element?

Ans : Proton

- **42** The mass of a proton is?

Ans : 1.672 x 10-27 kg

- **43** The theory of Proton was presented by?

Ans : William Prout

- **44** Neutron was discovered by?

Ans : James Chadwick in 1932

- **45** The heaviest fundamental particle of an atom?

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Ans : Neutron

- **46** The least stable particle?

Ans : Neutron

- **47** Chargeless particle of an atom?

Ans : Neutron

- **48** The atom without neutron?

Ans : Protium (Isotope of Hydrogen)

- **49** Atomic number is?

Ans : It is the number of protons in the nucleus of an atom

- **50** Atomic number is denoted by the alphabet?

Ans : Z

- **51** Mass number is?

Ans : The total number of protons and neutrons present in the nucleus of an atom

- **52** Mass number is denoted by alphabet?

Ans : A

- **53** Atomic Theory was propounded by?

Ans : John Dalton

- **54** Uncertainty Principle was propounded by?

Ans : Werner Heisenberg

- **55** Structure of Atom was discovered by?

Ans : Niels Bohr

- **56** Plum Pudding Model was discovered by?

Ans : J.J. Thomson

- **57** Wave Mechanics Model was discovered by?

Ans : Max Planck

- **58** Electron (-ve charge) was discovered by?

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Ans : J.J. Thomson

- **59** Proton (+ve charge) was discovered by?

Ans : Ernest Rutherford

- **60** Neutron (No charge) was discovered by?

Ans : James Chadwick

- **61** Nucleus(+ve charge)was discovered by?

Ans : Ernest Rutherford

- **62** Positron (+ve charge) was discovered by?

Ans : Carl Anderson

- **63** Antineutron (No charge) was discovered by?

Ans : Bruce Cork

- **64** The combining capacity of one atom to another?

Ans : Valency

- **65** Atom is bigger than its nucleus?

Ans : 105 times

- **66** Electrons move in a circular path called?

Ans : Orbit

- **67** The maximum number of elements in an orbit is?

Ans : 2

- **68** The orbit followed by a moving electrons around the nucleus of an atom?

Ans : Shell

- **69** The maximum number of electrons in a shell?

Ans : 2n^2 (n = Number of shell)

- **70** Smallest particle of a substance having all its properties?

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Ans : Molecule

- **71** The number of molecules obtained in mole of gas is called 1?

Ans : Avogadro Number

- **72** Avagadro Number is?

Ans : 6.023 x 10^23

- **73** The term molecule was coined by?

Ans : Avogadro

- **74** International mole day is on?

Ans : October 23

- **75** What is known as the bricks of Universe?

Ans : Molecules

- **76** The SI Unit of the amount of substance?

Ans : Mole

- **77** A molecule made up of only\one kind of atom is called?

Ans : Monoatomic molecule

- **78** A molecule made up of two kinds of atom is called?

Ans : Diatomic molecule

- **79** Substance which is composed of similar I' kind of atoms is called?

Ans : Elements

- **80** The scientist who proved that the elements are made up of atoms?

Ans : John Dalton

- **81** The term 'elements' was coined by?

Ans : Robert Boyle

- **82** The first scientist who gave a definition to element is?

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Ans : Robert Boyle

· **83** The scientist who gave symbols for elements on the basis of their names?

Ans : John .J. Berzelius

· **84** The scientist who classified elements into Metals and Non-metals is?

Ans : Lavoisier

· **85** Elements are classified into?

Ans : Metals; non-metals and metalloids

· **86** Elements that conduct electricity and heat which tends to lose electrons are called?

Ans : Metals

· **87** Elements that do not conduct electricity and heat which tends to accept electrons?

Ans : Non-Metals

· **88** Elements showing properties of both metals and non-metals are?

Ans : Metalloids

· **89** The international association which gives names of elements?

Ans : International Union of Pure and Applied Chemistry (IUPAC)

· **90** The headquarters of IUPAC?

Ans : Zurich (Switzerland)

· **91** The most abundant element in the universe?

Ans : Hydrogen

· **92** The second most abundant element in the universe?

Ans : Helium

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· **93** The only radio active element in liquid form?

Ans : Francium

· **94** The only radio active element in gaseous form?

Ans : Radon

· **95** The most electro positive stable element?

Ans : Cesium

· **96** The combination of two or more elements . is called?

Ans : Compounds

· **97** The separation of a compound into its elements by chemical means is called?

Ans : Analysis

· **98** The formation of a compound by the union ; of elements is called?

Ans : Synthesis Examples: Water; Steam; Salt etc. .

· **99** The recently discovered chemical compound for the treatment of cancer?

Ans : Cisplatin

· **100** The element which forms largest number of compounds?

Ans : Carbon

· **101** The second element which forms largest number of compounds?

Ans : Hydrogen

· **102** Two or more substances (elements or compounds or both) that do not combine chemically during the mixing?

Ans : Mixtures

· **103** The two kinds of mixtures are:?

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Ans : Heterogeneous mixture and Homogeneous mixture

- **104** A mixture of two faces of the matter is called?

Ans : Colloid Eg : Emulsion; Aerosols; Fog; Mt1k

- **105** A colloidal solution formed between two liquids is called?

Ans : Emulsion

- **106** A colloid formed between gas particles and liquid or solid particles?

Ans : Foam

- **107** Colloid which contains particles of liquid or solid dispersed in gas?

Ans : Aerosol

- **108** Atoms of the same element having same atomic number and different mass number are known as?

Ans : Isotopes

- **109** Isotope was discovered by?

Ans : Frederick Soddy

- **110** Which isotope is used to determine the age of fossils ?

Ans : Carbon 14 $

- **111** Which isotope is used for the treatment of cancer ?

Ans : Cobalt60$

- **112** Which isotope is used for the treatment of skin cancer ?

Ans : Phosphorous 32

- **113** Which isotopes are used as medicine?

Ans : Oxygen 15; Iodine - 131

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- **114** Isotopes differ in the number of?

Ans : Neutrons

- **115** The isotopes of hydrogen are?

Ans : Protium; Deuterium; Tritium

- **116** Elements having same mass number and different atomic number are known as?

Ans : Isobars Eg: calcium – 40; Argon - 40

- **117** The term Isobars was suggested by?

Ans : Alfred Walter Stewart

- **118** Atoms of elements having same number of neutrons are called?

Ans : Isotones eg : Helium

- **119** The term Isotones was formed by?

Ans : K.Guggenheimer

- **120** Compounds with same molecular formula but different structures are known as?

Ans : Isomers Eg: Glucose

- **121** Different forms of the same element with different physical appearances are known as?

Ans : Allotropes Eg: Diamond; Graphite and Charcoal are the allotropes of Carbon

- **122** The allotrope of Oxygen?

Ans : Ozone

- **123** An arrangement of elements with similar properties placed together is called?

Ans : Periodic Table

- **124** Mendeleev's periodic table was based on?

Ans : increasing order of atomic mass

- **125** Moseley's periodic table was based on the?

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Ans : atomic number of elements

- **126** The modern periodic table is based on?

Ans : atomic number

- **127** Modern periodic table contains?

Ans : 7 horizontal rows and 18 vertical columns

- **128** The periodic table was discovered by?

Ans : Dmitri Ivanovich Mendeleev

- **129** Modern periodic table was discovered by?

Ans : Henry Moseley

- **130** Periodic laws were put forward by?

Ans : Mendeleev

- **131** Modern periodic laws were put forward by?

Ans : Moseley

- **132** The scientist who classified elements based on Atomic Values is?

Ans : Lothar Meyer

- **133** The rows in periodic table are called?

Ans : Periods

- **134** Columns are periodic table called?

Ans : Groups

- **135** The left side of the periodic table denotes?

Ans : Metals

- **136** The right side of the periodic table denotes?

Ans : Non-metals

- **137** Most abundant element on earth's crust?

Ans : Oxygen

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- **138** Most abundant metal in earth's crust?

Ans : Aluminium

- **139** Most abundant metalloid in earth's crust?

Ans : Silicon

- **140** Most abundant element in atmosphere?

Ans : Nitrogen

- **141** Most abundant element in the universe?

Ans : Hydrogen

- **142** Most abundant element in human body?

Ans : Oxygen

- **143** Most abundant gas in atmosphere?

Ans : Nitrogen

- **144** Most abundant element in sea water?

Ans : Chlorine

- **145** Most abundant element in moon's surface?

Ans : Titanium

- **146** Most abundant metal present in human body and bones?

Ans : Calcium

- **147** Most abundant metal compound in bones?

Ans : Calcium phosphate

- **148** Most abundant compound on earth's surface?

Ans : Water (H20)

- **149** Most abundant compound in sea water?

Ans : Sodium Chloride

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- **150** Second most abundant compound in sea water?

Ans : Magnesium Chloride

- **151** Most chemically reactive element is?

Ans : Fluorine

- **152** Second most chemically reactive element?

Ans : Chlorine

- **153** The lightest and simplest element?

Ans : Hydrogen

- **154** The lightest metal?

Ans : Lithium

- **155** The rarest element in the earth?

Ans : Astatine

- **156** The heaviest element?

Ans : Osmium

- **157** The heaviest gaseous element?

Ans : Radon

- **158** First man made element?

Ans : Technetium

- **159** Most stable element?

Ans : Lead

- **160** The periodic table is divided into 4 main blocks: they are?

Ans : S block - elements of group 1 and 2; P block - elements of group 13to 18; D block - elements of group 3 to 12; F block - Lanthanides and Actinides

- **161** The shortest period of the periodic table?

Ans : First period

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· **162** The longest period of the periodic table?

Ans : Sixth period

· **163** Elements with atomic number 57-71 are known as?

Ans : Lanthanides (rare earths)

· **164** Elements with atomic number 89-103 are known as?

Ans : Actinides (radio active rare earths)

· **165** Total number of elements in periodic table?

Ans : 118

· **166** The number of naturally occurring elements?

Ans : 92

· **167** The first artificial element?

Ans : Technetium (Z = 43)

· **168** Man made elements are known as?

Ans : Transuranics

· **169** Who Classified Elements as Metals and non-metals?

Ans : Lavoisier

· **170** Who Classified Elements as Triads?

Ans : Dobereiner

· **171** Law of octaves was propounded by?

Ans : John Newland

· **172** Who Classified Elements based on atomic weight?

Ans : Mendeleev

· **173** Who Classified Elements based on atomic number?

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Ans : Moseley

· **174** Element present in 1; 2 and 13-18 groups are known as;?

Ans : Representative elements

· **175** All transitive elements are?

Ans : Metals

· **176** Transitive elements form…?

Ans : Coloured compounds

· **177** Which element is having the name of earth?

Ans : Tellurium (52)

· **178** Which element is having the name of moon?

Ans : Selenium (34)

· **179** Which element is having the name of Sun?

Ans : Helium (2)

· **180** Which element is having the name of Asteroid?

Ans : Palladium (46)

· **181** Which elements were named to honour women?

Ans : Curium (96) & Meitnerium (109)

· **182** Which element is having the name of Ceres?

Ans : Cerium(58)

· **183** Which element is having the Name of Uranus?

Ans : Uranium (92)

· **184** Which element is having the Name of Neptune?

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Ans : Neptunium (93)

· **185** Which element is having the Name of Pluto?

Ans : Plutonium (94)

· **186** The ability of an atom to accept the electrons during molecular bond formulation is known as?

Ans : Electro negativity

· **187** Electro negativity was discovered by?

Ans : Linus Pauling

· **188** Electro negativity scale was invented by?

Ans : Linus Pauling

· **189** The element which has most electro negativity?

Ans : Fluorine

· **190** The elements which have least electro negativity?

Ans : Francium; Caesium

· **191** Two types of reactions are?

Ans : Physical and Chemicalreactions

· **192** A reaction in which no new substance is produced is called .?

Ans : Physical reaction

· **193** The process by which one or more substances get transformed into a new substance is called?

Ans : Chemical reaction

· **194** Chemical reaction in which heat is released?

Ans : Exothermic reaction

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· **195** Chemical reaction in which heat is absorbed?

Ans : Endothermic reaction

· **196** Chemical reaction that involves the loss of electrons?

Ans : Oxidation

· **197** Chemical reaction that involves the gain of electrons?

Ans : Reduction

· **198** Chemical reaction in which electric energy is either absorbed or released?

Ans : Electro chemical reaction

· **199** Chemical reaction in which light energy is either absorbed or released?

Ans : Photochemical reaction

· **200** The ability of an atom to donate electrons is called?

Ans : Electro positivity

· **201** Union of atoms of two or more elements by mutual attraction?

Ans : Chemical Bonding

· **202** Two types of Bonds are :?

Ans : Ionic Bond or Electro Valent Bond & (ii) Covalent bond

· **203** The bond formed by transferring electrons from an atom to another?

Ans : Ionic Bond

· **204** Ionic bond was proposed by?

Ans : Kossel

· **205** The bonds formed by sharing of electrons between the atoms is called?

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Ans : Covalent bond

- **206** Which is the strongest bond?

Ans : Covalent bond

- **207** Which is the weakest bond?

Ans : Vander Waals Bond

- **208** The study of metals and the overall process by which metals are extracted from its ores are called?

Ans : Metallurgy

- **209** The elements which lose electrons in chemical reaction are called?

Ans : Metals

- **210** First metal discovered by man?

Ans : Copper

- **211** The hardest metal?

Ans : Chromium

- **212** Malleability of metals means?

Ans : Flattened into thin sheets by hammering

- **213** Ductility of metals means?

Ans : Stretched into a wire under pressure

- **214** Tensile of metals means?

Ans : Capable of being drawn out or stretched

- **215** Sonority of metals means?

Ans : The quality of being resonant

- **216** The metal having highest density?

Ans : Osmium

- **217** The metal known as Rainbow metal?

Ans : Iridium

- **218** The strongest reducing agent?

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Ans : Lithium

- **219** The metal kept in wax?

Ans : Lithium

- **220** The metal which does not allow X-ray to pass through?

Ans : Lead

- **221** The metal having lowest melting point?

Ans : Mercury

- **222** The metal known as quick silver?

Ans : Mercury

- **223** First known super conductor?

Ans : Mercury

- **224** Which is known as Anomalous Metal?

Ans : Mercury

- **225** The metal helps for blood clotting?

Ans : Calcium

- **226** The metal present in Chlorophyll?

Ans : Magnesium

- **227** The metal used for making IC Chips?

Ans : Silicon

- **228** The metal used for making the nib of a fountain pen?

Ans : Osmium

- **229** The metal used in Fluorescent lamps?

Ans : Mercury

- **230** The metal most abundant in moon?

Ans : Titanium

- **231** The most corrosion-resistant metal?

Ans : Iridium

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· **232** In fireworks which metal is used for Red colour?

Ans : Strontium

· **233** In fireworks which metal is used for Orange colour?

Ans : Calcium

· **234** In fireworks which metal is used for Green colour?

Ans : Barium

· **235** In fireworks which metal is used for Yellow colour?

Ans : Sodium

· **236** Extracting method of metal is known as?

Ans : Metallurgy

· **237** The impurity present in the ore?

Ans : Gangue

· **238** Substance added to ore to remove impurities is known as?

Ans : Flux

· **239** Two types of flux are:?

Ans : Acidic flux (eg : silica) & Basic flux (eg : quick lime)

· **240** The product obtained when gangue is added with flux?

Ans : Slag

· **241** Method of separating metals which have low melting point I from an ore is?

Ans : Liquation

· **242** Heating the ore below its melting point in the absence of air I to remove volatile impurities is known as?

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Ans : Calcination

· **243** Separating a substance from a mixture of liquid having I different boiling point is called?

Ans : Distillation

· **244** The deposition of metal on another by electric current is called?

Ans : Electroplating

· **245** A substance react with water is called?

Ans : Hydrolysis

· **246** Chemical decomposition by the action of heat is called?

Ans : Pyrolysis

· **247** The process of changing of liquid into gas?

Ans : Vaporization

· **248** The process of conversion of substance directly from solid to vapour state?

Ans : Sublimation

· **249** The process of changing of gas into liquid is known as?

Ans : Condensation

· **250** Process of heating milk to 72°C about 16 seconds and then cooling it to 4°C to destroy harmful bacteria is known as?

Ans : Pasteurization

· **251** Most effective method to separate a mixture of coloured compounds is?

Ans : Chromatography

· **252** A mixture of two elements; one of which is a metal is called?

Ans : Alloy

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· **253** The alloy used for making the parts of aero planes?

Ans : Duralumin

· **254** First alloy used by man?

Ans : Bronze

· **255** The alloy used for filling the cavity of the teeth?

Ans : Silver amalgam & Mercury amalgam

· **256** The alloy used for making the parts of engines?

Ans : Silumin

· **257** The alloy used for making the Oscar statuette?

Ans : Britannium

· **258** The alloy used for making pendulum?

Ans : Invar

· **259** The alloy used for making spring?

Ans : Chrome Steel

· **260** The alloy used for making bells?

Ans : Bronze (Bell metal)

· **261** The alloy used for making hornpipes?

Ans : Brass

· **262** First element in the periodic table?

Ans : Hydrogen

· **263** Hydrogen was discovered by?

Ans : Henry Cavendish

· **264** The name Hydrogen was given by?

Ans : Lavoisier

· **265** Colour of Pure Hydrogen is?

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Ans : Colourless

- **266** The gas having lowest density?

Ans : Hydrogen

- **267** The lightest element?

Ans : Hydrogen

- **268** Simplest atom (based on atomic mass) is that of?

Ans : Hydrogen

- **269** The element which is not included in any group?

Ans : Hydrogen

- **270** The element used as a rocket fuel?

Ans : Liquid Hydrogen

- **271** The colour of Hydrogen when it burns?

Ans : Blue

- **272** High boiling point of water is due to?

Ans : Hydrogen bonding

- **273** Hydrogenation of coal produces?

Ans : Diesel

- **274** Non - metal shows metallic character?

Ans : Hydrogen

- **275** rue I with highest calorific value?

Ans : Hydrogen

- **276** 1st noble gas group in the periodic table?

Ans : Helium

- **277** The element shows highest thermal conductivity?

Ans : Helium

- **278** Second lightest element?

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Ans : Helium

· **279** 2nd most abundant element in universe is?

Ans : Helium

· **280** Liquid Helium is used as?

Ans : Cryogenic refrigerant

· **281** Which gas is preferred for filling the weather balloons and air ships?

Ans : Helium

· **282** The elements used for the treatment of Asthma?

Ans : Helium and Oxygen

· **283** The elements used in welding are?

Ans : Helium and Argon

· **284** The lightest metal is?

Ans : Lithium

· **285** The element which is kept in wax?

Ans : Lithium

· **286** Beryllium was found by?

Ans : Louis Nicolas Vauqueli

· **287** Beryllium was isolated by?

Ans : Friedrich Wohler and Antoine Bussy

· **288** Naturally occurring compound of Beryllium?

Ans : Emerald

· **289** The word boron was originated from?

Ans : Borax

· **290** Compound used for making laboratory apparatus It?

Ans : Borosilicate glass

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· **291** The compound; known as inorganic benzene?

Ans : Borozene

· **292** The only acid shows the characteristics of alkali?

Ans : Boric acid

· **293** The main content of eye drops?

Ans : Boric acid

· **294** The polish used in carom board?

Ans : Boric acid

· **295** The element considered as the fundamental element of life?

Ans : Carbon

· **296** The element having maximum tendency of catenation (catenation - Self linking property)?

Ans : Carbon

· **297** Two types of allotropes of carbon are?

Ans : (1) Crystalline (eg : diamond; graphite; fullerene; graphine) (2) Amorphous (eg: coal; charcoal)

· **298** The most stable form of carbon is?

Ans : Graphite

· **299** Substance used for making electrodes is?

Ans : Graphite

· **300** The substance known as Black lead or Plumbago is?

Ans : Graphite

· **301** Which metal is used as the moderator in nuclear reactor?

Ans : Graphite

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· **302** The latest discovered allotrope of carbon?

Ans : Graphene

· **303** The single layer of carbon atoms arranged in a hexagoned shape?

Ans : Graphene

· **304** Percent of nitrogen presence in atmosphere is?

Ans : 78%

· **305** Main content of protein is?

Ans : Nitrogen

· **306** It is discovered by Scotish physician?

Ans : Daniel Rutherford in 1772

· **307** The gas controls burning is?

Ans : Nitrogen$

· **308** Which scientific method is used for the production/extraction of Magnesium?

Ans : Dow process

· **309** Which scientific method is used for the production/extraction of Nitric acid?

Ans : OstWald process

· **310** Which scientific method is used for the production/extraction of Noble metals?

Ans : Cyanide process

· **311** Which scientific method is used for the production/extraction of Sulphuric acid?

Ans : Contact process

· **312** Which scientific method is used for the production/extraction of Chlorine gas.?

Ans : Deacon's process

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· **313** Which scientific method is used for the production/extraction of Sodium?

Ans : Down's process

· **314** Which scientific method is used for the production/extraction of Hydrogen?

Ans : Bosch process

· **315** Which scientific method is used for the production/extraction of Steel?

Ans : Bessemer process

· **316** Which scientific method is used for the production/extraction of Ammonia?

Ans : Haber process

· **317** Which scientific method is used for the production/extraction of Sodium carbonate?

Ans : Solvay process

· **318** Which scientific method is used for the production/extraction of Sulphur?

Ans : Frasch process

· **319** Which scientific method is used for the production/extraction of Aluminium?

Ans : Hall Heroult process

· **320** Which scientific method is used for the production/extraction of Halogens?

Ans : Messenger method

· **321** Which scientific method is used for the production/extraction of Nitrogen?

Ans : Dumas process

· **322** The most abundant element in the atmosphere?

Ans : Nitrogen

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· **323** Percent of Nitrogen presence in atmosphere?

Ans : 78%

· **324** Main content of protein?

Ans : Nitrogen

· **325** Which gas controls burning?

Ans : Nitrogen

· **326** The acid content of acid rain is?

Ans : Nitrous Oxide

· **327** The compound used as anesthetic?

Ans : Nitrogen compound

· **328** Largest single constituent of earth's atmosphere?

Ans : Nitrogen compound

· **329** Gas known as laughing gas?

Ans : Nitrous Oxide

· **330** Gas formed during lightning?

Ans : Nitrogen dioxide

· **331** TNT - Tri Nitro Toluene is known as?

Ans : Trotyl

· **332** RDX- Research Department Explosive is known as?

Ans : Cyclonite

· **333** The nitrogen compound used as indelible ink (Voters' ink)?

Ans : Silver Nitrate

· **334** Oxygen was experimentally prepared by?

Ans : Karl Scheele

· **335** Oxygen was discovered by?

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Ans : Joseph Priestly

- **336** Element nature of oxygen was established by?

Ans : Lavoisier

- **337** Burning is helped by which gas?

Ans : Oxygen

- **338** What is the colour of oxygen?

Ans : colourless

- **339** What is the taste of oxygen?

Ans : tasteless

- **340** What is the odour of oxygen?

Ans : odourless

- **341** The colour of liquid oxygen is?

Ans : Light blue colour

- **342** Nature of oxygen?

Ans : Paramagnetic

- **343** Most abundant element in earth crust?

Ans : Oxygen

- **344** Number of atoms in?

Ans : Oxygen molecule - 2; Ozone - 3

- **345** Ozone layer is found in?

Ans : Stratosphere

- **346** The depletion of ozone layer is caused by?

Ans : Chlorofluorocarbon (CFC)

- **347** Industrial name of CFC?

Ans : Freon

- **348** Sodium is kept in?

Ans : Kerosene

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· **349** Sodium was discovered by?

Ans : Humphry Davy

· **350** The element which regulates blood pressure in human beings?

Ans : Sodium

· **351** Cell used to manufacture sodium hydroxide (NaOH)?

Ans : Castner Kellner Cell

· **352** Compound used as air purifier cell in submarines?

Ans : Sodium peroxide

· **353** Compound which is used as a fixer in photographic film?

Ans : Sodium Thio sulphate or Thio

· **354** The compound used in blood bank?

Ans : Sodium citrate

· **355** The sodium compound used as coolant in atomic reactors?

Ans : Liquid sodium

· **356** Sodium and Potassium are known as?

Ans : Soft metals

· **357** They are highly reactive with?

Ans : Water

· **358** Sodium and Potassium are kept in?

Ans : Kerosene

· **359** Element known as 'chemical sun' is?

Ans : Magnesium

· **360** The metal present in chloroplast of plants?

Ans : Magnesium

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· **361** The Magnesium compound used for dental filling?

Ans : Sorel cement

· **362** Magnesium Hydroxide; acts as an antacid is popularly known as?

Ans : Milk of Magnesia

· **363** The most abundant metal in the earth's crust?

Ans : Aluminium

· **364** Which is the main ore of Aluminium is?

Ans : Bauxite

· **365** Aluminium was isolated for the first time by?

Ans : Hans Oersted

· **366** Manufacturing process of Aluminium is?

Ans : Hall Heroult Process

· **367** Simplest way of extraction of aluminium is discovered by?

Ans : Charles Martin Hall

· **368** Example of an amphoteric metal?

Ans : Aluminium

· **369** The element used in reflecting telescope and CD?

Ans : Aluminium

· **370** In which colour compound of Aluminium is seen in?

Ans : Blue colour

· **371** Double sulphate of aluminium is?

Ans : Alum

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· **372** The metal shows the characteristics of both acid and alkali?

Ans : Aluminium

· **373** The metal mostly present in clay?

Ans : Aluminium

· **374** The metal used to make cigarette wrapper?

Ans : Aluminium

· **375** The' chemical method used for the concentration of bauxite?

Ans : Leaching

· **376** Compound of aluminium used for manufacturing powerful magnet?

Ans : Alnico

· **377** Naturally occurring aluminium silicate is?

Ans : Mica

· **378** Mica is a bad conductor of electricity and a good conductor of?

Ans : Heat

· **379** Asbestos is otherwise known as?

Ans : Rock Cotton

· **380** Phosphorous was discovered by?

Ans : Hennig Brand

· **381** "One who carries light" is the meaning of?

Ans : Phosphorous

· **382** White phosphorous is kept in?

Ans : Water

· **383** The form of Phosphorous which emits green light on the exposure to atmosphere ?

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Ans : White phosphorous

· **384** White phosphorous burns in atmosphere at?

Ans : 30°C

· **385** Red phosphorous is used for making ?

Ans : Safety matches

· **386** Substance used to make the match sticks?

Ans : Red Phosphorous & Potassium Chlorate

· **387** The element which is present in the DNA& RNA of animals is?

Ans : Phosphorous

· **388** The element present in the animal bone fertilizer is?

Ans : Phosphorous

· **389** The number of atoms present in a phosphorous molecule is?

Ans : 4 (tetra atomic)

· **390** The element having the smell of rotten fish is?

Ans : Phosphine (PH3)

· **391** The isotope of Phosphorous used for the treatment of blood cancer is?

Ans : Phosphorous-32

· **392** The phosphorous which is illuminated in darkness is?

Ans : White Phosphorous

· **393** The product obtained after the heating of White Phosphorous at a high temperature is?

Ans : Black Phosphorous

· **394** The phosphorous used as rat poison ?

Ans : Zinc Phosphide

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· **395** Sulphur is a member of?

Ans : Chalcogen famiily

· **396** Which is known as Enemy of copper?

Ans : Sulpher

· **397** Gases which cause fading the colour of silver ornaments are?

Ans : Hydrogen Sulphide & Sulphur dioxide

· **398** The gas which causes the fading of the colour of Taj Mahal is?

Ans : Sulphur dioxide

· **399** Number of atoms present in sulphur molecule?

Ans : 8

· **400** Acid rain is caused by?

Ans : Sulphur dioxide

· **401** The process of purifying Sulphide ores?

Ans : Froth Flotation process

· **402** The process of heating the rubber by adding sulphur?

Ans : Vulcanization

· **403** Mixture of Sulphur and Charcoal is known as?

Ans : Gun Powder

· **404** Potassium is kept in?

Ans : Kerosene

· **405** The elements which are known as soft metals?

Ans : Pottassium & Sodium

· **406** Pottassium & Sodium discovered by?

Ans : Humphry Davy

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· **407** The most abundant metal present in blood?

Ans : Potassium

· **408** The metal present in bath soap?

Ans : Potassium

· **409** The compound of potassium used for purifying water?

Ans : Potassium Permanganate

· **410** The ores of potassium are?

Ans : Carnalite & Salt Petre

· **411** Metal related to the disease arthritis?

Ans : Potassium

· **412** First metal separated by electrolysis?

Ans : Potassium

· **413** Chemical used for organic farming; neutralizing acidic soil?

Ans : Potassium Bicarbonate

· **414** The most abundant metal in human body is?

Ans : Calcium

· **415** The compound of calcium used to make bandage & statues is?

Ans : Plaster of Paris

· **416** Composition of coral reefs is caused by?

Ans : Calcium carbonate

· **417** The compound used in tooth paste as polishing agent?

Ans : Calcium carbonate

· **418** The most abundant chemical substance in cement?

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Ans : Calcium oxide

· **419** Compound which is regulating the setting time of cement?

Ans : Gypsum

· **420** The product obtained after heating. the gypsum at 125°C?

Ans : Plaster of Paris

· **421** Compound which is used in the process of manufacturing cement?

Ans : Limestone

· **422** The product obtained when lime stone is heated?

Ans : Quicklime and Carbondioxide

· **423** When quick lime is mixed with Carbon dioxide it turns into?

Ans : Milky colour

· **424** The compound used for producing lime mixture?

Ans : Calcium Compound

· **425** The chemical name of Chalk?

Ans : Calcium Carbonate

· **426** The whitest element compound known is?

Ans : Titanium

· **427** Titanium was discovered by?

Ans : William Gregor

· **428** White paints are made using the oxides of?

Ans : Titanium

· **429** The metal known as "Metal of future"?

Ans : Titanium

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- **430** The metal known as 'wonder metal'?

Ans : Titanium

- **431** The most abundant metal present on the surface of moon?

Ans : Titanium

- **432** Titanium is separated from?

Ans : Ilmenite

- **433** The scientist who isolated chromium for the first time was?

Ans : Louis Nicolas Vauquelin

- **434** The element shows antiferromagnetic property?

Ans : Chromium

- **435** Manganeese was discovered by?

Ans : Carl Sheele

- **436** Manganese was Isolated for the first time by?

Ans : Johan Gottlieb Gahn

- **437** The fifth most abundant metal in Earth's crust?

Ans : Manganese

- **438** Latin name of Iron?

Ans : Ferrum

- **439** Boiling point of Iron?

Ans : 3134K

- **440** Melting point of Iron?

Ans : 1811K

- **441** Element present in haemoglobin?

Ans : Iron

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· **442** Least pure form of Iron?

Ans : Cast Iron

· **443** Industrial production of steel?

Ans : Bessemer process

· **444** Iron coated with Zinc is called?

Ans : Galvanized Iron

· **445** Iron coated with Tin is called?

Ans : Tin Plating

· **446** When Iron rusts; its weight?

Ans : Increases

· **447** The reason for the brown colour of soil and rock is the presence of?

Ans : Iron Oxide

· **448** The element present in Vitamin B12?

Ans : Cobalt

· **449** The scientist discovered Cobalt?

Ans : George Brandt

· **450** The micronutrient for bacteria; algae and fungi?

Ans : Cobalt

· **451** The isotope of Cobalt used for the treatment of cancer?

Ans : Cobalt 60

· **452** The substance used in glass to get blue colour?

Ans : Cobalt salt

· **453** First metal used by man?

Ans : Copper

· **454** Latin name of Copper?

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Ans : Cuprum

· **455** The ores of Copper?

Ans : Malachite & Chalcolite

· **456** The metal prominently found in Pancha-toha?

Ans : Copper

· **457** The chemical name of Blue Vitriol?

Ans : Copper sulphate

· **458** Impure Zinc is known as?

Ans : Spelter

· **459** The element used in galvanization and in dry cells?

Ans : Zinc

· **460** The element used in the manufacturing of perfumes?

Ans : Zinc

· **461** The element present in insulin and tear drop?

Ans : Zinc

· **462** The compound known as 'White Vitriol'?

Ans : Zinc Sulphate

· **463** The elements extracted through the process of distillation?

Ans : Zinc and Mercury

· **464** The word halogen means?

Ans : Salt former

· **465** Halogens are?

Ans : Fluorine (F) Chlorine (CI)Bromine (Br) Iodine (I) Astatine (At)

· **466** Which is a Synthetic Halogen -?

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Ans : Astatine

· **467** Which is a Pseudo Halogen -?

Ans : Cyanogen

· **468** Which is a Solid Halogen -?

Ans : Iodine

· **469** Which is a Super Halogen?

Ans : Fluorine

· **470** The lightest known halogen is?

Ans : Fluorine

· **471** The least metallic in nature is?

Ans : Fluorine

· **472** The element having highest reactivity or electro-negativity?

Ans : Fluorine

· **473** The most abundant halogen present in earth's crust?

Ans : Fluorine (0.08%)

· **474** The disease caused by the deficiency of fluorine?

Ans : Fluorosis

· **475** The most abundant halide in earth's crust by weight?

Ans : Fluoride

· **476** The compound known as fluorspar?

Ans : Calcium Fluoride

· **477** The scientist who discovered and isolated the chlorine gas?

Ans : carl scheele

· **478** The scientist who recognized chlorine as an element?

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Ans : Humphry Davy

· **479** The second element having highest reactivity?

Ans : Chlorine

· **480** The colour of Chlorine gas?

Ans : Pale yellow green

· **481** The organic compound which contains chlorine?

Ans : DDT; BHC; Chloroform; Freon

· **482** Chloroform was discovered by?

Ans : James Young Simpson

· **483** The poisonous substance produced when the chlorine is exposed?

Ans : Phosgene

· **484** The gas which was used as chemical weapon in the First World War?

Ans : Phosgene

· **485** The element used to purify the water in swimming pool?

Ans : Chlorine

· **486** The element used as an oxidising agent?

Ans : Chlorine

· **487** The element used as a bleaching agent?

Ans : Chlorine

· **488** The most abundant element present in sea water?

Ans : Chlorine

· **489** The remedy gas which is used against the chlorine poisoning?

Ans : Ammonia

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· **490** The chlorine compound present in tear gas?

Ans : Benzyl Chloride

· **491** The compound of chlorine used in the plastics?

Ans : Polyvinyl chloride (PVC)

· **492** The solvent used as an anesthetic?

Ans : Chloroform

· **493** The compound used as an antiseptic?

Ans : Sodium Hypochlorite

· **494** The non metal present in liquid form in room temperature?

Ans : Bromine

· **495** The bromine compound used in photographic films?

Ans : Silver Bromide

· **496** Third lightest halogen?

Ans : Bromine

· **497** Commonly used halogen is?

Ans : Iodine

· **498** The element known as solid halogen?

Ans : Iodine

· **499** The non-metal having highest density?

Ans : Iodine

· **500** The most commonly used 'halogen available as tablet?

Ans : Iodine

· **501** Iodine test is used to detect?

Ans : Carbohydrate

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· **502** The colour of carbohydrate in iodine?

Ans : Dark Blue

· **503** The element that sublimes (solid into vapour) on heating?

Ans : Iodine

· **504** The substance contains in the capsule which is given to the people in the nuclear disaster affected area?

Ans : Potassium Iodide

· **505** The substances used for artificial raining?

Ans : Silver Iodide andDry ice

· **506** The rarest element on earth?

Ans : Astatine

· **507** The heaviest known halogen?

Ans : Astatine

· **508** The element known as synthetic halogen?

Ans : Astatine

· **509** Noble gases are also called as?

Ans : Inert gases

· **510** Noble gases were discovered by?

Ans : William Ramsay

· **511** Group 18 is also known as?

Ans : Zero group elements

· **512** NOBLE GASES ARE:?

Ans : Helium (He); Neon (Ne); Argon (Ar); Krypton (Kr); Xenon (Xe); Radon (Rn)

· **513** The largest gaseousatom?

Ans : Radon

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· **514** The heaviest gaseous atom?

Ans : Radon

· **515** The only radio active gaseous element?

Ans : Radon

· **516** The element extracted from radioactive disintegration of radium?

Ans : Radon

· **517** Argon was discovered by?

Ans : Lord Rayleigh and William Ramsay

· **518** Lord Rayleigh and William Ramsay got Nobel Prizefor the discovery of Argon in?

Ans : 1904

· **519** The most abundant inert gaseouselement . present in the atmosphere?

Ans : Argon

· **520** The gas filled in electric bulbs?

Ans : Argon

· **521** The anomalous metal seen in liquid form" in room temperature?

Ans : Mercury

· **522** The metal with lowest melting point (-39'C)?

Ans : Mercury

· **523** Measuring quantity of mercury?

Ans : Flask

· **524** The term amalgamis usedto represent an alloy which contains?

Ans : Mercury Eg: Dental filling

· **525** The element having maximum number of isotopes?

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Ans : Tin

- **526** Latin name of Tin?

Ans : Stannum

- **527** The main ore of Tin?

Ans : Cassiterite

- **528** The ore of Tin known asTin stone?

Ans : Cassiterite

- **529** The most stable substance in the nature?

Ans : Lead

- **530** Element usedin storage '\.~) batteries ~?

Ans : Lead

- **531** The element present as an anti-knocking agent in petrol?

Ans : Lead

- **532** The element used in the smoke of the vehicles?

Ans : Lead

- **533** The element having least conductivity?

Ans : Lead

- **534** The element which is purified by melting?

Ans : Lead

- **535** The part of the human body which is affected by lead?

Ans : Kidney

- **536** The disease caused by the effect of the element lead?

Ans : Plumbism

- **537** The red coloured pigment in 'sindur'?

Ans : Trilead Tetroxide

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- **538** Tin and Lead combination is used in?

Ans : safety fuse

- **539** .Alloy of Tin and Lead are used to make?

Ans : safety wire

- **540** Alloy of Tin and lead can be separated by?

Ans : melting

- **541** Noble metals are?

Ans : Silver (Ag); Platinum (Pt) & Gold (Au)

- **542** The elements exist in free state?

Ans : Noble Metals

- **543** The processof producing noble metals is?

Ans : Cyanide Process

- **544** Latin name of gold is?

Ans : Aurum

- **545** The metal known as King of metals?

Ans : Gold

- **546** The metal known as 'Hiranya'?

Ans : Gold

- **547** The metal with high. malleability and ductility?

Ans : Gold

- **548** The device used to measure the purity of Gold?

Ans : Carat Analyser

- **549** Melting point of gold?

Ans : 10640C (19470F)

- **550** The metal used with gold for making ornaments?

Ans : Copper

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· **551** The symbol of Bureauof Indian Standard given for the purity of gold?

Ans : Hallmark

· **552** The compound of Gold and Silver is called?

Ans : Electrum

· **553** The unit of gold -?

Ans : Carat

· **554** Pure gold is ....carat?

Ans : 24 carat

· **555** Which carat of gold is used to make ornaments?

Ans : 22 carat

· **556** 916 gold is.....carat?

Ans : 22 carat

· **557** One pavan =.....gram?

Ans : 8 gram

· **558** 1kg = ...pavan?

Ans : 125 pavan

· **559** The liquid known as Royal Water?

Ans : Aquaregia

· **560** Gold; Silver and Platinum are soluble in?

Ans : Aquaregia

· **561** The ratio of Hydrochloric acid and Nitric acid in Aquaregia?

Ans : 3:1

· **562** The liquid used in the Wohlwill process for extracting pure gold?

Ans : Aquaregia

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· **563** Most abundant compound present in 'I" animals and human body?

Ans : Water

· **564** The scientist who found that water is a compound of hydrogen and oxygen?

Ans : Henry Cavendish

· **565** The only matter which exists in three forms (Solid; liquid; gas)?

Ans : Water

· **566** Chemical name of water?

Ans : Di-hydrogen Oxide

· **567** The compound known as heavy water?

Ans : Deuterium Oxide

· **568** Scientist who made artificial water?

Ans : Joseph Priestly

· **569** Water has high boiling point due to the presence of?

Ans : Hydrogen bonding

· **570** Body mass contain.....% of water?

Ans : 70% of water

· **571** The liquid known as universal solvent?

Ans : Water

· **572** The matter having highest specific heat . capacity?

Ans : Water

· **573** Water acts as?

Ans : neutral

· **574** The purest water on earth is?

Ans : Rain water

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· **575** The poor conductor of electricity?

Ans : Water

· **576** The bonding of the molecules in water is called?

Ans : Polar bonding

· **577** Temporary hardness of water is due to the presence of?

Ans : bicarbonates of calcium and magnesium

· **578** Permanent hardness of water is due to the presence of?

Ans : sulphates and chlorides of calcium and magnesium

· **579** Temporary hardness of water can be removed by?

Ans : repeated boiling or adding lime

· **580** Permanent hardness of water can be removed by adding?

Ans : sodium carbonate or by distillation or by exchange method

· **581** Carbon dioxide was discovered by?

Ans : Joseph Black

· **582** The percentage of Carbon dioxide in atmosphere?

Ans : 0.03%

· **583** Gaswhich causesglobal warming?

Ans : Carbon dioxide

· **584** Solid carbon dioxide is known as?

Ans : Dry Ice

· **585** The substance used as cooling agent?

Ans : Dry Ice

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· **586** The substance known as Card Ice?

Ans : Dry Ice

· **587** The sewage material in Aeroplanes are turned into solid by?

Ans : Blue ice

· **588** The gas released during the process of fermentation?

Ans : Carbon dioxide

· **589** The gas used as fire extinguisher?

Ans : Carbon dioxide

· **590** The gas present in soda water?

Ans : Carbon dioxide

· **591** The gas caused for green noose effect?

Ans : Carbon dioxide

· **592** The gas absorbed at the time of photosynthesis?

Ans : Carbon diuxide

· **593** The gas emitted when the flour and toddy become sour?

Ans : Carbon dloxlde

· **594** The gas let out when the: lime stone is heated?

Ans : Carbon dioxide

· **595** The product released when the carbon is burned in air .?

Ans : Carbon dioxide

· **596** Compound of Nitrogen and Hydrogen is?

Ans : Ammonia

· **597** Ammonia gas was discovered by ?

Ans : Fritz Haber

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· **598** Gaseous ammonia was produced tor the first time by?

Ans : Joseph Priestly

· **599** The process by which ammonia is manufactured industrially is?

Ans : Haber process

· **600** The temperature for the Haber process is 500° C Catalyst used in Haber process?

Ans : Iron

· **601** The only gas which shows alkaline in nature?

Ans : Ammonia

· **602** The substance which is used as coolant in Ice plants?

Ans : Ammonia

· **603** The only gas having alkaline characteristics?

Ans : Ammonia

· **604** The remedial gas used against the poisoning of chlorine?

Ans : Ammonia

· **605** Acid which IS used to detect Ammonia?

Ans : Nessler's Reagent

· **606** Artificial volcanoes are made using?

Ans : Ammonium Dichromate

· **607** The substance used in the production of nylon; rayon; explosives; fertilizers and dyes?

Ans : Ammonia

· **608** the substance known as liquor ammonia?

Ans : Ammonium Hydroxide

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· **609** The substance known as smelling salt?

Ans : Ammonium carbonate

· **610** The plant which absorbs ammonia directly from the atmosphere?

Ans : Paddy

· **611** The chemical substance used to dehydrate Amonia gas?

Ans : Calcium oxide

· **612** The compounds of Ammonia?

Ans : Nitrogen and Hydrogen

· **613** Acids are substances which produce?

Ans : Hydronium ion (Hp+)

· **614** The element present in all acids?

Ans : Hydrogen

· **615** The acids without any oxygen is called?

Ans : Hydracid; Hydrochloric acid

· **616** The acid known as oil of Vitriol?

Ans : Sulphuric Acid

· **617** The acid known as king of chemicals?

Ans : Sulphuric Acid

· **618** Sulphuric acid is produced by?

Ans : Contact process

· **619** The acid used in lead storage battery?

Ans : Sulphuric Acid

· **620** The acid used for the making of dynamite and car battery?

Ans : Sulphuric Acid

· **621** The acid pours on earth when acid rain occurs?

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Ans : Sulphuric Acid

· **622** The acid which is highly powerful than Sulphuric acid?

Ans : Super Acid

· **623** The planet having the clouds of Sulphuric acid?

Ans : Venus

· **624** The catalyst used for the production of Sulphuric acid?

Ans : Vanadium Pentoxide

· **625** The acids produced from plants?

Ans : Organic Acid

· **626** The taste of acids is?

Ans : Sour

· **627** Acid turns blue litmus paper to?

Ans : Red

· **628** The gas produced when acids are active on metals?

Ans : Hydrogen

· **629** The gas produced when acids are active with Carbonates?

Ans : Carbon dioxide

· **630** Earliest known acid is?

Ans : Acetic acid (Ethenoic acid)

· **631** Other name of formic acid?

Ans : Methenoic acid

· **632** Which is used for the purification of gold?

Ans : Nitric acid (Spirit of Nitre)

· **633** The chemical process for producing nitric acid?

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Ans : Ostwald process

· **634** The acid known as aquafortis?

Ans : Nitric Acid

· **635** The acid used as oxidizer in rocket propellants?

Ans : Nitric Acid

· **636** Oxides and hydroxides of metals are known as?

Ans : Bases

· **637** Bases turns red litmus paper into?

Ans : Blue

· **638** The colour of phenolphthalein in base?

Ans : Pink

· **639** The colour of phenolphthalein in acid?

Ans : No colour

· **640** The activity of acid and base is known as?

Ans : Neutralization

· **641** Which acid is used in Soap manufacturing?

Ans : Sodium hydroxide

· **642** Which acid is used in Bleaching powder manufacturing?

Ans : Calcium hydroxide

· **643** Which acid is used as antacid?

Ans : Magnesium hydroxide

· **644** Which acid is used to remove stains from clothes?

Ans : Ammonium hydroxide

· **645** Ionic compounds containing cations (+ve ion) and anions (-ve ion) are?

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Ans : Salt

- **646** The process of mixing up of salt and water resulting to form an acidic or alkaline solution known as?

Ans : Hydrolysis

- **647** Property of salt to absorb atmospheric salt?

Ans : Hygroscopic

- **648** Which salt is used as Flavouring agent?

Ans : Sodium chloride

- **649** Which salt is used as Food preservative?

Ans : Sodium benzoate

- **650** Which salt is used as Ingredient in baking powder?

Ans : Sodium bicarbonate

- **651** Which salt is used as gun powder?

Ans : Potassium nitrate

- **652** Nitrogen containing organic compounds are called?

Ans : Alkalloids

- **653** The taste of Alkalloids is?

Ans : Bitter

- **654** Measure of acidic or basic character of a liquid or solution is called?

Ans : pH value

- **655** pH scale was discovered by?

Ans : Soren Sorensen

- **656** pH value starts from?

Ans : 0 to 14

- **657** pH value less than 7 is?

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Ans : Acidic in nature

· **658** pH value equal to 7 is?

Ans : Neutral solutions (eq: water)

· **659** pH value more than 7 is?

Ans : Bases in nature

· **660** Solution which resists changes in pH caused by the addition of acid or alkali?

Ans : Buffer solution

· **661** Homogeneous mixture of two or more substances is called?

Ans : Solution·

· **662** Complex molecules formed by the combination of simpler molecules?

Ans : Polymer

· **663** The word polymer means?

Ans : Big molecule

· **664** Simplest unit of polymers?

Ans : Monomer

· **665** The process by which polymers and plastics made from monomers?

Ans : Polymerisation

· **666** Study of artificial fibre is called?

Ans : Polymer Chemistry

· **667** Examples of natural polymers are?

Ans : Cellulose; silk etc.

· **668** Paper is an example of?

Ans : Cellulose

· **669** Examples of artificial polymers are?

Ans : Rayon; Nylon; Teflon etc.

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· **670** Father of Polymer Chemistry?

Ans : Hermann Staudinger

· **671** Father of Polymer Physics?

Ans : Hermann Mark

· **672** Plastics are generally?

Ans : Synthetic polymers

· **673** First artificial plastic?

Ans : Bakelite

· **674** Bakelite is made from?

Ans : Phenol and formaldehyde

· **675** Plastic will dissolve in?

Ans : Chloroform

· **676** Poisonous gas produced on burning of plastic?

Ans : Dioxin

· **677** Chemical name of Teflon?

Ans : Polytetra fluoro ethylene

· **678** PVC stands for?

Ans : Poly Vinyl Chloride

· **679** The birth place of Rubber?

Ans : Brazil

· **680** Constituent of natural rubber?

Ans : Isoprene

· **681** Rubber is an example of?

Ans : Polymer

· **682** The word 'rubber' was first coined by?

Ans : Joseph Priestly

· **683** Heating rubber with sulphur for the betterment of its properties like tensile strength;

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hardness; elasticity etc. is called as?

Ans : Vulcanisation

· **684** Vulcanisation was developed by?

Ans : Charles Good Year

· **685** Ordinary rubber is?

Ans : Thermoplastic

· **686** First synthetic rubber?

Ans : Neoprene

· **687** Styrene Butadiene Rubber; Neoprene; Thiokole are the examples of?

Ans : Synthetic rubber

· **688** Rubber is soluble in?

Ans : Benzene

· **689** Structure of Benzene was discovered by:?

Ans : August Kekule

· **690** Cement was invented by?

Ans : Joseph Aspidin

· **691** Mixture of aluminates and silicates of calcium is?

Ans : Cement

· **692** Setting of cement is due to the hydration of calcium silicates and?

Ans : Calcium aluminates

· **693** Setting time of cement is controlled by adding?

Ans : Gypsum

· **694** Sodium hydroxide Used to make?

Ans : washing soap

· **695** Potassium hydroxide Used to make?

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Ans : toilet soap

· **696** Olive oil Used to make?

Ans : baby soap

· **697** The process of Extraction of soap from glycerine is?

Ans : Salting out

· **698** Soaps making procedure is known as?

Ans : Saponification

· **699** Transparent oil contents are?

Ans : Glycerol and caster oil

· **700** The quality of soap is determined by .?

Ans : TFM (Total Fatty Matter)

· **701** As per the lSI Standard first grade toilet soap should have a TFM of?

Ans : 76%

· **702** Second grade toilet soap should have a TFM of?

Ans : 70%

· **703** Mixture of sodium salts of aromatic and sulphonic adds is?

Ans : Detergents

· **704** The drugs used to treat infections?

Ans : Antibiotics Eg: Penicillin; Ampicillin etc.

· **705** The drug which either kill or prevent the growth of micro organism?

Ans : Antiseptics

· **706** The drug used to reduce fever?

Ans : Antipyretic

· **707** The drug used to reduce pain without causing impairment of consciousness?

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Ans : Analgesics Eg: Aspirin and Paracetamol

· **708** The drug used to relieve stress and anxiety?

Ans : Tranquilizer

· **709** The chemical used as mouthwash?

Ans : Hydrogen peroxide

· **710** Basic group contained in alcohol?

Ans : Hydroxyl group (OH)

· **711** The units to measure the amount of alcohol?

Ans : ABV; Proof

· **712** The simplest alcohol?

Ans : Methanol

· **713** Denaturized spirit is?

Ans : Ethanol + Methanol

· **714** Alcoholic beverage contains?

Ans : Ethyl alcohol

· **715** Alcohol poison (Hooch Tragedy) is due to?

Ans : Methanol

· **716** Ethanol is produced by the?

Ans : Fermentation of Sugar

· **717** The product obtained when yeast is added to sugar solution?

Ans : Wash

· **718** Absolute alcohol is?

Ans : 100% ethanol

· **719** The mixture of absolute alcohol and petrol at the rate of 1:4 is called?

Ans : Power alcohol

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· **720** The process of separating alcohol from the mixture of water and alcohol?

Ans : Distillation

· **721** The liquor which has the lowest rate of alcohol content?

Ans : Beer

· **722** The liquor which is produced from the malted barley?

Ans : Beer

· **723** The liquor which has highest rate of alcohol content?

Ans : Whisky

· **724** The alcohol which is produced from molasses?

Ans : Rum

· **725** The alcohol which is produced from grapes?

Ans : Brandy

· **726** The alcohol which is produced from the cashew fruits?

Ans : Feni

· **727** The study of wines?

Ans : Oenology

· **728** The product derived from the reaction between an acid and an alcohol?

Ans : Esters

· **729** Esters were discovered by?

Ans : Hermann Emil Fischer

· **730** The organic compounds used for artificial smell and taste?

Ans : Esters

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- **731** Simplest form of sugar?

Ans : Glucose

- **732** Ester having Smell of pineapple?

Ans : Ethyl Butyrate

- **733** Ester having Smell of banana?

Ans : Isoamyl Acetate

- **734** Ester having Smell of Jasmine?

Ans : Benzyl Acetate

- **735** Ester having Smell of Orange?

Ans : Oetyl Acetate

- **736** Ester having Smell of Apple?

Ans : Butyl Acetate

- **737** Ester having Smell of Strawberry?

Ans : Methyl Cinnamate

- **738** Ester having Smell of Grapes?

Ans : Methyl Anthranilate

- **739** Ester having Smell of honey?

Ans : Methyl Phenyl Acetate

- **740** Ester having Smell of Lemon?

Ans : Ethyl Formate

- **741** Constituents of sugar are?

Ans : Carbon; Hydrogen; Oxygen

- **742** The first artificial sugar is?

Ans : Saccharine

- **743** Sweetest natural sugar is?

Ans : Fructose

- **744** The sugar which is 200 times sweeter than common table sugar?

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Ans : Saccharine

· **745** The sugar which is 300 times sweeter than common table sugar?

Ans : Aspartame

· **746** The sugar which is 600 times sweeter than common table sugar?

Ans : Sucralose

· **747** Water-soluble protein Used in the production of ice cream?

Ans : Gelatin

· **748** Common table sugar is?

Ans : Sucrose

· **749** Sugar in sugarcane is?

Ans : Sucrose

· **750** Sugar in blood is?

Ans : Glucose

· **751** Sugar in milk is?

Ans : Lactose

· **752** Sugar in fruits is?

Ans : Fructose

· **753** Sugar in barley is?

Ans : Maltose

· **754** Sugar in starch is?

Ans : Maltose

· **755** The sugar which is used as the daily needs?

Ans : Sucrose

· **756** The sugar which is produced at the time of photosynthesis?

Ans : Sucrose

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· **757** Examples of artificial sugar are?

Ans : Saccharine and Aspartame

· **758** The sugar used by diabetes patient?

Ans : Aspartame

· **759** A super cooled liquid?

Ans : Glass

· **760** The substance having high elasticity?

Ans : Glass

· **761** The main ingredients of glass are?

Ans : Sand; lime and soda ash

· **762** The substance which is added to glass to increase its hardness?

Ans : Borax

· **763** Main raw material of glass?

Ans : Silica

· **764** Glass is soluble in?

Ans : Hydrofluoric acid

· **765** The glass known as water glass?

Ans : Sodium Silicate

· **766** Water glass is soluble in?

Ans : Water

· **767** The glass known as Pyrex?

Ans : Borosilicate glass

· **768** The structure of atom was discovered by?

Ans : Niels Bohr

· **769** The smallest unit of matter that have all the characteristics of an element?

Ans : Atoms

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· **770** Nucleus was discovered by?

Ans : Rutherford

· **771** What is the maximum number of electrons that can be accommodated in an orbital?

Ans : 2

· **772** Which atom has only one electron?

Ans : Hydrogen

· **773** The path of the electron according to Niels Bohr's theory was?

Ans : Orbit (Shell)

· **774** Electron is looked upon as a cloud of negative charge according to?

Ans : Wave - mechanics theory

· **775** The region of space around the nucleus where there is a high probability of finding an electron is called?

Ans : Orbital

· **776** Who put forward the principle of uncertainty?

Ans : Werner Heisenberg

· **777** What do you mean by Avagadro's number?

Ans : Number of particles in one mole of any substance

· **778** The wave nature of electron was suggested by whom?

Ans : Louis De Broglie

· **779** The number of electrons in oxygen atom is?

Ans : 8

· **780** Who discovered electrons?

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Ans : J. J. Thomson

· **781** What are the neutrons and protons in an atom collectively known as?

Ans : Nucleons

· **782** The scientist who introduced the model of the atom similar to the solar system?

Ans : Rutherford

· **783** What are isotopes?

Ans : Atoms having same atomic number but different mass number. Father of Periodic Table is? DMITRI IVANOVICH MENDELEEV

· **784** What are isobars?

Ans : Atoms having same mass number but different atomic number

· **785** What are isotones?

Ans : Atoms having equal number of neutrons

· **786** What is the basis for modern classification of the elements?

Ans : Atomic number

· **787** What was the basis for Mendeleev classification of elements?

Ans : Atomic weight

· **788** The horizontal rows of elements in the periodic table are called?

Ans : Periods

· **789** Modern periodic table was developed by?

Ans : Henry Moseley

· **790** The vertical columns of the periodic table are called?

Ans : Groups

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· **791** Which group contains the elements with largest atomic size?

Ans : First group

· **792** As the size of the atom increases the electronegativity?

Ans : Decreases

· **793** What kind of elements generally form coloured compounds?

Ans : Transition metals

· **794** Who studied the relationship between atomic volume and atomic weight?

Ans : Lothar Meyer

· **795** The first group elements are called?

Ans : Alkali metals

· **796** The outermost orbit of an atom is called?

Ans : Valence shell.

· **797** The electrons present in the outmost shell of an atom is called?

Ans : Valence electrons

· **798** How many groups are there in the modern periodic table?

Ans : Eighteen

· **799** A solution which turns red litmus to blue is called?

Ans : Alkaline

· **800** The elements which show the properties of both metals and non metals are called?

Ans : Metalloids

· **801** Which period having the minimum number of elements?

Ans : First period

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· **802** The elements of the s-block and pblock are together referred to as?

Ans : Representative elements

· **803** Where are the smallest atoms seen at the modern periodic table?

Ans : Right hand top

· **804** The different blocks of the Long form periodic table are?

Ans : s; p; d and f

· **805** Where are the Largest atoms seen at the periodic table?

Ans : Bottom left

· **806** Which period have the largest number of elements in the periodic table?

Ans : The sixth period

· **807** Which is the smallest atom?

Ans : Hydrogen

· **808** The relative tendency of the atoms to attract electrons in chemical reactions is called?

Ans : Electronegativity

· **809** The scientist who prepared the electronegativity scale?

Ans : Linus Pauling

· **810** Which is the first artificial element?

Ans : Technetium

· **811** Most electropositive elements?

Ans : Francium or Caesium

· **812** The element which shows highest electron affinity?

Ans : Chlorine (348)

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· **813** The most common element in the atmosphere?

Ans : Nitrogen

· **814** The natural element having highest atomic weight?

Ans : Uranium

· **815** The element which is used to coat the photo copying drum of xerox?

Ans : Selenium

· **816** The element present in Thyroid hormone?

Ans : Iodine

· **817** The element present in DNA and RNA?

Ans : Phosphorus

· **818** The element having the highest boiling point?

Ans : Rhenium

· **819** The element having the largest number of isotopes?

Ans : Tin (10 isotopes)

· **820** Element having highest reactivity?

Ans : Fluorine

· **821** Element used as bleaching agent?

Ans : Chlorine

· **822** Most abundant element in the earth crust?

Ans : Oxygen

· **823** The most abundant metal in the earth's crust?

Ans : Aluminium

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· **824** Element having the highest electronegativity?

Ans : Fluorine

· **825** The lightest element known is?

Ans : Hydrogen

· **826** Name the element kept by covering with paraffin?

Ans : Lithium

· **827** Element used in the manufacture of insecticides?

Ans : Chlorine

· **828** Electro positive elements means:?

Ans : An atom that loses one or more electrons

· **829** Electro negative elements means:?

Ans : An atom that gains one or more electrons

· **830** The element contained in sea weeds?

Ans : Iodine

· **831** The element which is the enemy of copper?

Ans : Sulphur

· **832** Most abundant element present in our body?

Ans : Oxygen

· **833** Which element on adding to natural rubber makes it less sticky in hot weather and less hard in cold weather?

Ans : Sulphur

· **834** Which element can easily form chains?

Ans : Carbon

· **835** Which element in radioactive form is used for determining the age of artifacts;

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relics; bones etc of the past?

Ans : Carbon

· **836** Which element has no neutrons in it?

Ans : Hydrogen

· **837** Which element is used as an antiseptic?

Ans : Iodine

· **838** Which element is used in medicine; photography and making dyes; gives off a violet vapour when heated?

Ans : Iodine

· **839** Which is the most essential element for plant growth?

Ans : Nitrogen

· **840** Which element is highly present in sea cucumber?

Ans : Vanadium

· **841** Which element was named 'inflammable air'?

Ans : Hydrogen

· **842** Which is the best conductor of electric current?

Ans : Silver

· **843** The main ores of Aluminium?

Ans : Bauxite and Cryolite

· **844** Metals extracted from sea water?

Ans : Magnesium and sodium

· **845** Major metals present in Chloroplast?

Ans : Magnesium; Manganese; Copper and Iron

· **846** Most abundant metal present in blood?

Ans : Potassium

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· **847** The hardest metal is?

Ans : Chromium

· **848** Noble metals?

Ans : Silver; Platinum; Gold

· **849** The first metal to be used by man?

Ans : Copper

· **850** "King of metal" is?

Ans : Gold

· **851** The metal of future?

Ans : Titanium

· **852** The metal found in the rocks of moon / Lunar metal is?

Ans : Titanium

· **853** Metal used for the manufacture of aeroplane?

Ans : Titanium

· **854** Metal present in the exhaust gases of vehicles?

Ans : Lead

· **855** An important metal present in the eyes of animals?

Ans : Zinc

· **856** Metal used in batteries of car?

Ans : Lead

· **857** Metal present in Insulin?

Ans : Zinc

· **858** Metal used in torch cell?

Ans : Zinc

· **859** What is the purest form of iron?

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Ans : Wrought Iron

· **860** Which mineral has the nickname 'fool's gold'?

Ans : Iron pyrites

· **861** The earthy impurities present in the ore are called?

Ans : Gangue

· **862** Which metal remains in liquid state at 0°C?

Ans : Mercury

· **863** Ruby is mainly the oxide of?

Ans : Aluminium

· **864** The metal having highest boiling point?

Ans : Tungston

· **865** The fusible substance obtained when flux combines with the gangue is known as?

Ans : Slag

· **866** Write the name of three soft metals:?

Ans : Lithium; Sodium; Potassium

· **867** Name three metals which are in the liquid state on a hot day?

Ans : Mercury; Gallium; Cesium

· **868** Write the names of three metals which do not react with oxygen:?

Ans : Silver; Platinum; Gold

· **869** Bismuth Aurite is the mineral of?

Ans : Gold

· **870** Which chemical causes Minamata disease?

Ans : Mercury

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• **871** Which alkali metal is denser than water?

Ans : Lithium

• **872** The elements which undergo chemical change losing electrons are in generally called?

Ans : Metals

• **873** What is the blue mineral of aluminium?

Ans : Lapislazuli

• **874** Which is the black impure aluminium oxide mineral found in nature?

Ans : Emery

• **875** Which metal is essential for the production of haemoglobin?

Ans : Iron

• **876** What is a metallic radical present in toilet soap?

Ans : Potassium

• **877** Which metal is added to gold for making ornaments?

Ans : Copper

• **878** Which metal is contained in chlorophyll?

Ans : Magnesium

• **879** Which are the two metals kept in kerosene?

Ans : Sodium; Potassium

• **880** Which metal is used in the filaments of electric lamps?

Ans : Tungsten

• **881** Which metal has the highest density?

Ans : Osmium ALLOYS

• **882** Bronze is an alloy of?

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Ans : Tin and copper

· **883** Alloy having low melting point?

Ans : Solder

· **884** Alloy used to make rock driller?

Ans : Manganese

· **885** Alloy used to make springs and suspension?

Ans : Phospher Bronze

· **886** Constituent metals contained in the alloy sterling silver?

Ans : Copper and silver

· **887** Alloy used in the manufacture of gun barrels?

Ans : Gun metal

· **888** Constituent metals contained in chrome steel?

Ans : Iron and Chromium

· **889** Alloy used in the manufacture of pendulum of clock?

Ans : Invar

· **890** Constituent metals contained in Invar?

Ans : Iron and Nickel

· **891** Which is the first alloy; a mixture of two metals to be made in the world?

Ans : Bronze

· **892** Which alloy is used for preparing strong magnets?

Ans : Alnico

· **893** Name the alloy used for casting engine parts?

Ans : Silumin

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· **894** Alloy used for the construction of air craft?

Ans : Duralumin

· **895** What is galvanising?

Ans : Coating iron with Zinc

· **896** What do you mean by calcination?

Ans : Heating in the absence of air

· **897** Alloy used for making superstructures of steamers?

Ans : Magnalium

· **898** Which alloy of aluminium is used for making coins?

Ans : Aluminium bronze

· **899** What is alloyed with copper to make bronze; and with lead to make pewter?

Ans : Tin

· **900** The components of Magnalium are?

Ans : Magnesium; Aluminium

· **901** Which kind of steel is used for making blade?

Ans : High carbon steel

· **902** What are the components of solder?

Ans : tin and lead

· **903** The heating element of an electric heater is made of?

Ans : Nichrome

· **904** Photographic films are coated with?

Ans : Silver Bromide

· **905** Artificial rain is done by using?

Ans : Silver iodide

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· **906** Compound which has the smell of rotten fish?

Ans : Phosphine

· **907** Coral reefs are made of?

Ans : Calcium carbonate

· **908** Compound used in tear gas?

Ans : Benzyl chloride

· **909** Compound used as airpurifier in submarines?

Ans : Sodium peroxide

· **910** Which is considered to be an anomalous compound?

Ans : Water

· **911** Which chemical compound may be used as a fuel for driving vehicles?

Ans : Ethanol

· **912** What is common salt?

Ans : Sodium chloride

· **913** Chemical reaction in which heat is evolved?

Ans : Exothermic reaction

· **914** What is caustic soda?

Ans : Sodium hydroxide

· **915** What is Quick lime?

Ans : Calcium oxide

· **916** Which calcium compound is used to remove ice from roads in cold countries?

Ans : Calcium chloride

· **917** Which metal salt gives lilac colour to the flame?

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Ans : Potassium

· **918** Which compound of sodium is used to separate soap from glycerine?

Ans : Sodium chloride

· **919** What is the difference between lime and limestone?

Ans : Lime is calcium oxide; Limestone is calcium carbonate

· **920** What is the difference between quick lime and slaked lime?

Ans : Quick lime is calcium oxide and slaked lime is calcium hydroxide

· **921** Soda lime is a mixture of?

Ans : Calciumoxide and Sodium hydroxide (Quick-lime and caustic soda)

· **922** What is the main constituent of bones?

Ans : Calcium phosphate

· **923** The scales formed inside the boilers are chemically?

Ans : Calcium carbonate

· **924** What is obtained when gypsum is heated to 125°C?

Ans : Plaster of paris

· **925** The suspension of calcium hydroxide in water is called?

Ans : Milk of lime or slaked lime

· **926** Name the calcium compound which is used as filler in paper industry?

Ans : Gypsum

· **927** Which calcium compound is used to make toothpaste?

Ans : Calcium carbonate

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· **928** When sodium burns; what is the colour of the flame?

Ans : Golden yellow

· **929** Which sodium compound is used in fire extinguisher?

Ans : Sodium bicarbonate

· **930** Which is the smallest atom among the halogens?

Ans : Fluorine

· **931** The iodine compound used for dressing of wounds?

Ans : Iodoform (CHl3)

· **932** What is the commercial name of sodium nitrate?

Ans : Chile salt petre

· **933** Name a substance which is used as mordant?

Ans : Alum

· **934** What is the chemical name of Emerald?

Ans : Beryllium aluminium sillicate

· **935** Which is the artificial form of aluminium oxide used for making refractory crucibles?

Ans : Alundum

· **936** Which form of aluminium oxide is hard as diamond?

Ans : Corundum

· **937** What is the colour of copper sulphate?

Ans : Blue

· **938** What is the chemical name of verdigris?

Ans : Basic copper carbonate or basic copper acetate

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· **939** The copper compound used for preserving timber and hides is?

Ans : Copper sulphate

· **940** Which chemical is used for rat poison?

Ans : Zinc phosphide

· **941** What is the chemical name for marble?

Ans : Calcium carbonate

· **942** Which salt is used in making ink?

Ans : Ferrous sulphate

· **943** Which chemical is used in a refrigerator for cooling purposes?

Ans : Freon

· **944** What is the chemical name for blue vitriol?

Ans : Copper sulphate

· **945** What is the chemical name of calamine?

Ans : Zinc carbonate

· **946** Which chemical is used by weavers for moisturing thread?

Ans : Anhydrous calcium chloride

· **947** What is the chemical name of baking soda?

Ans : Sodium bicarbonate

· **948** What is an Epsom salt?

Ans : Magnesium sulphate

· **949** What is the name for the greenblue coating that forms naturally on copper; bronze and brass?

Ans : Verdigris

· **950** What is P.V.C.?

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Ans : Poly Vinyl Chloride

· **951** What is the chemical name for saltpetre?

Ans : Potassium Nitrate

· **952** Coffee stains on clothing; paper; plastic etc can be properly removed by?

Ans : Sodium hypochlorite

· **953** Which substance is used for dry cleaning?

Ans : Trichloro ethane

· **954** What is the chemical name for Galena?

Ans : Lead sulphite

· **955** Which chemical is used for preserving fruit juice in India?

Ans : Sodium Benzoate

· **956** Most abundant alkali metal is?

Ans : Sodium (Na)

· **957** The whitest compound in the earth's atmosphere is?

Ans : Titanium dioxide

· **958** The compound known as "Nitre" is?

Ans : Potassium nitrate

· **959** Which compound is known as "Pearl Ash"?

Ans : Potassium carbonate (K2CO2)

· **960** The chemical name of washing soda is?

Ans : Sodium carbonate

· **961** The densest known gas?

Ans : Radon

· **962** The acid used as a mild antiseptic eye lotion?

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Ans : Boric Acid

- **963** What is hydroxy propionic acid called?

Ans : Lactic Acid

- **964** Soda water contains which acid?

Ans : Carbonic Acid

- **965** What is called vinegar?

Ans : 3-7% solution of acetic acid

- **966** Which gas is used for killing bacteria?

Ans : Chlorine

- **967** Proteins are assembled from which acid?

Ans : Amino acid

- **968** Oranges contains which acid?

Ans : Citric acid

- **969** What is the another name for monocarboxylic acid?

Ans : Fatty acid

- **970** Where is formic acid found?

Ans : Ants and nettles

- **971** Which gas is filled in electric bulbs?

Ans : Argon

- **972** Which gas is commonly used in balloons and airships?

Ans : Helium

- **973** Which acid is contained in Tomato sauce?

Ans : Acetic acid

- **974** Which gas protects us from the ultra - violet rays?

Ans : Ozone

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· **975** Gas contained in Gobar gas?

Ans : Methane

· **976** The solution of ammonia gas at high pressure is?

Ans : Liquor ammonia

· **977** Gold and platinum dissolve in?

Ans : Aqua regia

· **978** Which is the solvent for white phosphorus?

Ans : Carbon disulphide

· **979** Which polysaccharide of glucose is stored in liver?

Ans : Glycogen

· **980** What is laughing gas?

Ans : Nitrous oxide

· **981** What is meant by aqua regia?

Ans : Mixture of concentrated nitric acid and hydrochloric acid in the ratio 1:3

· **982** Which is the solvent of wax?

Ans : Turpentine

· **983** Which gas turns lime water milky?

Ans : Carbondioxide

· **984** Which is known as the king of chemicals?

Ans : Sulphuric acid

· **985** What is the other name of solid carbon dioxide?

Ans : Dry Ice

· **986** Which gas is used in the multi - coloured display signs seen at night?

Ans : Neon

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• **987** Which acid is commonly used in batteries for cars?

Ans : Sulphuric acid

• **988** Which acid is found in lemon fruit?

Ans : Citric Acid

• **989** Which gas is used for extinguishing fire?

Ans : Carbondioxide

• **990** What is the name of the dye which turns red on contact with acid and blue with alkali?

Ans : Litmus

• **991** What do you mean by LSD?

Ans : Lysergic acid diethylamide

• **992** What is the pH factor of pure water?

Ans : 7

• **993** Gas formed when yeast is added to rice flour for fermenting is?

Ans : Carbon dioxide

• **994** Which is the purest form of water?

Ans : Rain water

• **995** Some unripe fruits; like green apples; plums etc contain which acid?

Ans : Maleic acid

• **996** What is the chemical name of aspirin?

Ans : Acetyl salicylic acid

• **997** What is oil of vitriol?

Ans : Sulphuric acid

• **998** What is an Acid - base indicator?

Ans : Methyl orange

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- **999** Stains of ink or rust from iron on clothes; tables and sheets can be best removed by?

Ans : Oxalic acid

- **1000** Which gas is essential for combustion?

Ans : Oxygen

- **1001** Irritation from the bite of some insects and the stinging sensation of nettles is caused by?

Ans : Formic acid

- **1002** Gas mainly responsible for the green house effect?

Ans : CO2

- **1003** Which is the main constituent of LPG?

Ans : Butane

- **1004** Which gas is used for artificial ripening of green fruits?

Ans : Acetylene (ethyne) ORGANIC CHEMISTRY

- **1005** An organic compound must contain?

Ans : Carbon

- **1006** Marsh gas is?

Ans : Methane

- **1007** Which compound is formed when sugar solution is fermented?

Ans : Ethanol

- **1008** Name the solution used to detect the presence of glucose:?

Ans : Benedict solution

- **1009** Give an example of polysaccharide?

Ans : Cellulose

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· **1010** The simplest member of saturated hydrocarbon is?

Ans : Methane (CH4)

· **1011** Which is the first organic compound artificially prepared?

Ans : Urea

· **1012** Name a simplest amino acid?

Ans : Glycine

· **1013** Which is the chemical bond found in organic compounds?

Ans : Covalent bond

· **1014** Which is the enzyme that converts the starch in our food into glucose?

Ans : Amylase

· **1015** Who discovered the pesticide property of DDT?

Ans : Paul Herman Muler

· **1016** Vinegar is chemically?

Ans : Acetic acid (CH3COOH)

· **1017** Hydrocarbon with double bond is?

Ans : Alkenes

· **1018** What is the commercial name of acetylene tetrachloride?

Ans : Westrol

· **1019** The organic compounds having the functional group COOH are called?

Ans : Carboxylic acids

· **1020** Carbohydrate which human beings cannot digest?

Ans : Cellulose

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· **1021** Which organic compound have the functional group OH?

Ans : Alcohol

· **1022** Compound having the same molecular formula but different structural formula are called?

Ans : Isomers

· **1023** What is another name of alkanes?

Ans : Paraffins

· **1024** What is obtained when an acid reacts with an alcohol?

Ans : Ester

· **1025** What is another name of Methyl alcohol or methanol?

Ans : Wood spirit

· **1026** What is another name of Alkenes?

Ans : Olefins

· **1027** Unsaturated hydrocarbons with triple bond?

Ans : Alkynes

· **1028** What is the end product of hydrolysis of protein?

Ans : Amino acids

· **1029** What is the name of the gas used in the preparation of polythene?

Ans : Ethylene

· **1030** Write a carbohydrate insoluble in water:?

Ans : Starch

· **1031** Which is the hardest form of carbon; whose crystals are octahedral in shape?

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Ans : Diamond

· **1032** Milk protein is known as?

Ans : Caesin

· **1033** The sugar contained in honey is?

Ans : Fructose

· **1034** The hard; plastic covers of telephones are made of polymers?

Ans : Phenol - formaldehyde

· **1035** Lead pencils are made of?

Ans : Graphite - an allotrope of carbon

· **1036** The substances which burn and supply energy are called?

Ans : Fuels

· **1037** Which is the main constituent of natural gas?

Ans : Methane

· **1038** Which substance is obtained when coal is heated in the absence of air?

Ans : Coke

· **1039** Coal containing a large amount of carbon is?

Ans : Anthracite

· **1040** What is the colour of crude petroleum?

Ans : Brown

· **1041** The process of damage of metals by the action of any medium from its surroundings is called?

Ans : Corrosion of metals

· **1042** The measure of the acidic or basic character of a liquid or solution is the?

Ans : pH value.

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· **1043** The pH scale was introduced by?

Ans : Sorrenson.

· **1044** pH value generally starts from 0 and ends at 14. Neutral solution have?

Ans : pH 7.

· **1045** Acidic solutions have pH?

Ans : less than 7

· **1046** Basic solutions have pH?

Ans : greater than 7

· **1047** What is meant by ignition temperature?

Ans : The temperature at which a fuel starts burning when heated is called ignition temperature.

· **1048** How can petroleum be purified?

Ans : Fractional distillation

· **1049** Which is the main constituent of petroleum gas?

Ans : Butane

· **1050** What is formed by the mixture of hydrogen; methane and carbon monoxide?

Ans : Coal gas

· **1051** Which fuel is used in aeroplane?

Ans : Aviation spirit

· **1052** What are the components of natural gas?

Ans : Methane and hydrogen

· **1053** Coal containing 65% of carbon?

Ans : Bituminous coal

· **1054** Cement mixed with gravel; sand and water is called?

Ans : Concrete

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· **1055** Which product of living organisms was the first to be made under laboratory conditions?

Ans : Urea

· **1056** Which drug is present in tobacco?

Ans : Nicotine

· **1057** Optical glass is?

Ans : Flint glass

· **1058** Which glass is generally used for making laboratory wires?

Ans : Heat resistant glass

· **1059** Substance used to give violet colour to glass?

Ans : Manganese dioxide

· **1060** Which glass is used for making lens?

Ans : Flint glass

· **1061** Cobalt compounds give which colour to glass?

Ans : Blue

· **1062** Raw material commonly used for all types of glass?

Ans : Silica

· **1063** Which glass is used as the wind shield of the motor cars?

Ans : Safety glass (laminated glass)

· **1064** Which glass is used for making electric bulb?

Ans : Soda glass

· **1065** Ferrous oxide gives which colour to glass?

Ans : Olive green

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· **1066** Which substance is added for getting yellow colour to glass?

Ans : Chromium salt

· **1067** What is used for making prisms?

Ans : Flint glass

· **1068** Which laminates are used for making helmets?

Ans : Fibre glass

· **1069** Which substance is used for making PVC?

Ans : Vinyl chloride

· **1070** Which plastic acquires hardness permanently when heated and cooled?

Ans : Thermosetting plastics

· **1071** Which type of plastics is used for making adhesives; button etc?

Ans : Urea formaldehyde

· **1072** What is widely used for making nylon?

Ans : Caprolactum

· **1073** What is used for salting out; in the manufacture of soap?

Ans : Sodium chloride

· **1074** Which solvent is used for dry cleaning of clothes?

Ans : tetrachloro ethylene

· **1075** Which sweet-smelling solvent is used in Nail polishes?

Ans : Acetone

· **1076** What is the chemical content of moth balls?

Ans : Naphthalene

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· **1077** Which artificial fibre is used for making fishing net?

Ans : Nylon

· **1078** What is the chemical name for factomphos?

Ans : Ammonium carbonate

· **1079** Write the process which causes bread to rise and produce bubbles in beer:?

Ans : Fermentation Common

· **1080** Which chemical fertilizer is found in chile?

Ans : Sodium nitrate

· **1081** Antibiotic used in the treatment of typhoid fever?

Ans : Chloramphenicol

· **1082** What do you call the substances which bring down the body temperature due to fever?

Ans : Antipyretics

· **1083** Scientist who first prepared urea?

Ans : Wohler

· **1084** What is the monomer of polythene?

Ans : Ethylene

· **1085** What is the other name for terylene?

Ans : Decorn

· **1086** Which fiber is chemcially identical to cotton fibres?

Ans : Rayon

· **1087** Detergents used for cleaning clothes and utensils contain?

Ans : Sulphates

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· **1088** Which is used as a thickener in paints and lipsticks?

Ans : Bentonite

· **1089** Natural Radioactivity was discovered by?

Ans : Henry Bequerrel

· **1090** Analgesics are?

Ans : Chemicals used for getting relief from pain

· **1091** Antipyretics are?

Ans : Chemicals which bring down body temperature

· **1092** Antiseptics are?

Ans : Chemicals which prevent the growth of micro organisms and may even kill them.

· **1093** Commonly used narcotic analgesies are?

Ans : Morphine; Codeine; Marijuane etc.

· **1094** The branch of science which deals with the treatment of diseases using suitable chemicals is known as?

Ans : chemotherapy

· **1095** What is the another name of Ascorbic acid?

Ans : Vitamin C

· **1096** Which nucleic acid is mainly responsible for the synthesis of protein?

Ans : Ribo nucleic Acid (RNA)

· **1097** Which nuclei acid is responsible for heredity?

Ans : Deoxyribo Nucleic Acid (DNA)

· **1098** What is the chemical name of vitamin B1?

Ans : Thiamine

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· **1099** What is riboflavin?

Ans : Vitamin B2

· **1100** What is a sunshine vitamin?

Ans : Vitamin D

· **1101** Which enzyme can hydrolyse sucrose?

Ans : Invertase

· **1102** What is cyanocobalamin?

Ans : Vitamin B12

· **1103** Which is a steroid vitamin?

Ans : Vitamin D

· **1104** What is ascorbic acid?

Ans : Vitamin C

· **1105** What is calciferol?

Ans : Vitamin D

· **1106** Which vitamin prevents pellagra?

Ans : Niacin

· **1107** The vitamin present in rice polishing is?

Ans : Vitamin B2 RADIO ACTIVITY

· **1108** What are the three isotopes of hydrogen?

Ans : Protium H1; Deuterium H2 and Tritium H3)

· **1109** The process by which smaller nuclear joins and forms larger nucelus is called?

Ans : Fusion reaction

· **1110** A heavy nucleus breaking up into smaller nuclei of almost equal size is called?

Ans : Fission

· **1111** Artificial Radio Activity was discovered by?

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Ans : Irene Curie and F. Juliot

- **1112** Simplest Radioactive atom is?

Ans : Tritium

- **1113** Age of fossils is calculated by?

Ans : Radiocarbon dating

- **1114** Element used in Radiocarbon dating?

Ans : Carbon 14

- **1115** Wine dating is done by?

Ans : Tritium

- **1116** Isotope used for cancer treatment?

Ans : Cobalt 60

- **1117** Angiogram test is done by using?

Ans : Sodium 24

- **1118** Isotope used for the treatment of Leukaemia?

Ans : Gold 198

- **1119** Bone cancer can be diagnosed by using?

Ans : Phosphorus 32

- **1120** Coolants used in nuclear reactor?

Ans : Liquid sodium

- **1121** Moderators used in Nuclear Reactor?

Ans : Graphite and Heavy water

- **1122** Strongest Radioactive element?

Ans : Radium

- **1123** Liquid Radioactive metal?

Ans : Francium

- **1124** Gaseous Radioactive element?

Ans : Radon

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· **1125** Unit of Radioactivity?

Ans : Bequerrel

· **1126** The principle of atom bomb?

Ans : Uncontrolled chain reaction of nuclear fission

· **1127** Who put forward a principle relating to the equilibrium system?

Ans : Le Chatellier

· **1128** Radiocarbon dating was developed by?

Ans : Willard F. Libby

· **1129** Radioactivity is measured by using the instrument?

Ans : Geiger counter

· **1130** Isotope used for the treatment of Hyper-thyroidism?

Ans : Iodine 131

· **1131** The Radioactive element present in Pitch Blende?

Ans : Uranium

· **1132** Half life period of Carbon 14?

Ans : 5730 years

· **1133** Half life period of thorium 234?

Ans : 24 days

· **1134** Rays which travels in the speed of light?

Ans : Gamma rays

· **1135** The steady state from which no spontaneous change takes place is called?

Ans : Equilibrium

· **1136** The chemical reactions which never go to completion are called?

Ans : Reversible reactions

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· **1137** The reaction in which the forward and backward reactions occur simultaneously is called?

Ans : Reversible reaction

· **1138** Those reactions in which the products cannot react and give back the original reactants are called?

Ans : Irreversible reactions

· **1139** The temperature most suited for conducting an industrial process involving a reversible reactions; most conveniently and profitably is called?

Ans : Optimum temperature

· **1140** The reaction in which product molecules react and give back the original reactants is called?

Ans : Backward reaction

· **1141** A system of reacting substances from which neither the reactants nor the products are taken away or added to is called?

Ans : Closed system

· **1142** At what temperature water has the maximum density?

Ans : 4°C

· **1143** A rain coat is made of?

Ans : Polychloroethene

· **1144** The absence of cobalt in minute quantities in human body causes?

Ans : Pernicious anaemia

· **1145** Which material is used in display devices; such as digital watches?

Ans : Liquid crystal

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· **1146** Which drug is present in cola drinks?

Ans : Caffeine

· **1147** What is the modern standard for relative atomic mass?

Ans : Carbon isotope with mass number 12

· **1148** What happens when an electron moves nearer to the nucleus of the atom?

Ans : Its energy decreases

· **1149** What is molarity?

Ans : Number of moles of solute in one litre of the solution.

· **1150** What do you mean by a buffer solution?

Ans : Solution which can maintain constant PH

· **1151** Which halogen is highly metallic in character?

Ans : Astatine

· **1152** Which gas has the smell of rotten eggs?

Ans : Hydrogen sulphide

· **1153** The phenomenon by which the same element exists in the same physical state in different forms is known as?

Ans : Allotropy

· **1154** Substances used for removing excess of chlorine from textiles after their bleaching are in general called?

Ans : Antichlor

· **1155** The substances which are capable of absorbing combined water or elements of water from molecules of compounds are called?

Ans : Dehydrating agent

· **1156** The substances which are capable of removing water vapour from other substances

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are called?

Ans : Drying agents

- **1157** Smell of white phosphorus?

Ans : Garlic

- **1158** What is the acid present in milk?

Ans : Lactic acid

- **1159** What is the colour of chlorine?

Ans : Greenish yellow

- **1160** What is the colour of ruby?

Ans : Red

- **1161** Which mineral is known as 'fool's gold'?

Ans : Iron pyrites

- **1162** The iron obtained direct from the blast furnace is called?

Ans : Pig iron

- **1163** What is agate?

Ans : Naturally occuring silica

- **1164** Which is the germicidal component in bleaching powder?

Ans : Chlorine

- **1165** Write the name of a liquid in which phosphorous dissolves:?

Ans : Carbondisulphide

- **1166** Which element is used as a disinfectant; as a bleaching agent and to purify water?

Ans : Chlorine

- **1167** What is the common name for sodium chloride?

Ans : Salt

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· **1168** An enzyme which helps in digestion is?

Ans : Protease

· **1169** What do you understand by 22 carat gold?

Ans : 22 parts gold; 2 parts copper

· **1170** What is sublimation?

Ans : Converting a solid directly into its vapour

· **1171** The ashes of plants contain alkali metals; 90% of which is?

Ans : Potassium

· **1172** Which gas turns litmus colourless?

Ans : Chlorine

· **1173** What is the common name for hydrogen hydroxide?

Ans : Water

· **1174** Who is known as the "Father of Polymer Science?

Ans : The German scientist Herman Staudinger

· **1175** The substances which conduct electricity with the help of the ions present in them are called?

Ans : Electrolytes

· **1176** The atoms or groups of atoms that carry electrical charge are called?

Ans : Ions

· **1177** Which chemical reaction takes place in a torch cell?

Ans : Chemical energy is converted into electrical energy.

· **1178** The negative electrode is called?

Ans : Cathode

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· **1179** Substances; that do not conduct electricity are called?

Ans : Insulators

· **1180** Electrode that is connected to the positive pole of the battery is called?

Ans : Anode

· **1181** DefineIsotopes?

Ans : Atoms of the same element having same atomic number but different mass number.

· **1182** Define Isobars?

Ans : Atoms of different elements which have the same mass number but different atomic number.

· **1183** Define Isotones?

Ans : Atoms of different elements which contain the same number of neutrons.

· **1184** In a torch cell; which energy is converted into electric energy?

Ans : Chemical

· **1185** What is isomerism?

Ans : Same molecular formula but different structural formula

· **1186** What material is used for cutting glass?

Ans : Diamond

· **1187** Sulphur is required in plants as a nutrient element for?

Ans : Making vitamins

· **1188** Proteins are mainly made up of?

Ans : Carbon; Hydrogen; Oxygen and Nitrogen

· **1189** Amino acids are the building blocks of?

Ans : Proteins

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· **1190** Natural rubber is a polymer of?

Ans : Isoprene

· **1191** Car tyre cords are made up of?

Ans : nylon - 66

· **1192** The drugs used to treat allergy are called?

Ans : Antihistamins

· **1193** Substances which prevent the formation of acids in the stomach are called?

Ans : Antacids

· **1194** 6 to 10% solution of acetic acid is used as a preservative for various food items. It is commonly known as?

Ans : Vinegar

· **1195** Natural antioxidants are?

Ans : Vitamin C and E

· **1196** The hardness of water is due to the presence of which salts?

Ans : calcium and magnesium salts

· **1197** Temporary hardness of water is due to the presence of which salts?

Ans : Bicarbonates of Calcium & Magnesium

· **1198** Permanent hardness of water is due to the presence of which salts?

Ans : Chlorides and sulphates of Calcium & Magnesium

· **1199** The most commonly used food preservative is?

Ans : Sodium benzoate

· **1200** Aspirin is used as?

Ans : an analgesic

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- **1201** Paracetamol is used as?

Ans : both analgesic and antipyretic

- **1202** The drug used against AIDS is?

Ans : AZT

- **1203** Which metal is used to make CD?

Ans : Aluminium

- **1204** The smallest particle of an element or a compound; which shows all the properties of that substance is known as?

Ans : molecule

- **1205** Non - stick kitchen wares are coated with?

Ans : Teflon

- **1206** LPG is a mixture of?

Ans : Ethane; Propane and Butane

- **1207** The main component of LPG is?

Ans : Butane

- **1208** The main component of natural gas is?

Ans : Methane

- **1209** The process of coating Iron with Zinc is known as?

Ans : Galvanisation

- **1210** Soaps solution is basically?

Ans : Alkaline (are the salts of weak acid and strong base. Hence their solution is alkaline)

- **1211** Detergents are basically-Alkaline/ Acidic/Neutral?

Ans : Neutral (Detergents are the salts of strong acid and strong base. Hence their solution will be neutral)

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· **1212** Which acid is known as the "King of Chemicals"?

Ans : Sulphuric acid

· **1213** The substances which prevent ageing of food materials are commonly known as?

Ans : Anti oxidants

· **1214** A mixture of carbon monoxide and nitrogen is called?

Ans : producer gas

· **1215** "King of Chemicals"?

Ans : Sulphuric acid

· **1216** A mixture of carbon monoxide and hydrogen is called?

Ans : Water gas

· **1217** A solution of carbon dioxide gas in water is called?

Ans : Soda water

· **1218** Which gases are used for gas welding?

Ans : Oxygen and acetylene

· **1219** Rock cotton is?

Ans : Asbestos

· **1220** When Iron rusts; its weight?

Ans : increases

· **1221** Element extracted from monozite sand is?

Ans : Thorium

· **1222** The gas used in refrigerators and ice plants?

Ans : Ammonia (NH3)

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· **1223** The mixture of uranium oxides is commonly known as?

Ans : Yellow cake

· **1224** Man made elements are commonly known as?

Ans : Transuranics

· **1225** The inorganic elements or compounds which occur naturally in the earth's crust are known as?

Ans : minerals

· **1226** The mineral from which a metal can be profitably extracted are called?

Ans : Ores

· **1227** The process of extraction of metals from their ores; and then refining them for use is known as?

Ans : metallurgy

· **1228** The main ore of aluminium is?

Ans : Bauxite

· **1229** The main ore of iron is?

Ans : Haematite

· **1230** The nucleus of an atom consists of?

Ans : protons and neutrons

· **1231** The number of moles of solute present in 1 kg of a solvent is called its?

Ans : molality

· **1232** The metal used to recover copper from a solution of copper sulphate is?

Ans : Fe

· **1233** The number of d-electrons in Fe^{2+} (Z = 26) is not equal to that of?

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Ans : p-electrons in CI(Z = 17)

· **1234** The metallurgical process in which a metal is obtained in a fused state is called?

Ans : smelting

· **1235** The molecules of which gas have highest speed?

Ans : H2 at -73oC

· **1236** The oldest rocks in the earth's crust were once molten; and came from deep inside the earth. The molten rock; called magma; spewed out in volcanic eruptions during the earth;s early life and solidified into hard rock's called?

Ans : igneous rocks

· **1237** The law which states that the amount of gas dissolved in a liquid is proportional to its partial pressure is?

Ans : Henry's law

· **1238** The main buffer system of the human blood is?

Ans : H2CO3 - HCO3

· **1239** The gas present in the stratosphere which filters out some of the sun's ultraviolet light and provides an effective shield against radiation damage to living things is?

Ans : ozone

· **1240** The most commonly used bleaching agent is?

Ans : chlorine

· **1241** The nucleus of a hydrogen atom consists of?

Ans : 1 proton only

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· **1242** The heat required to raise the temperature of body by 1 K is called?

Ans : thermal capacity

· **1243** The nuclear particles which are assumed to hold the nucleons together are?

Ans : mesons

· **1244** The mass of P4O10 that will be obtained from the reaction of 1.33 gram of P4 and 5.07 of oxygen is?

Ans : 3.05 gram

· **1245** The octane number of zero is assigned to?

Ans : n-heptane

· **1246** The metal that is used as a catalyst in the hydrogenation of oils is?

Ans : Ni

· **1247** The most abundant rare gas in the atmosphere is?

Ans : Ar

· **1248** The Latin word formica means ant. The name formic acid is derived from this Latin word because?

Ans : this acid was first obtained by the distillation of ants

· **1249** The inherited traits of an organism are controlled by?

Ans : DNA molecules

· **1250** The heat energy produced when the human body metabolises 1 gram of fat is?

Ans : 39 KJ

· **1251** What are the number of moles of CO2 which contains 16 g of oxygen?

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Ans : 0.5 mole

- **1252** The main use of salt in the diet is to?

Ans : produce in small amounts the hydrochloric acid required for the digestion of food

- **1253** The monomer of polythene is?

Ans : ethylene

- **1254** The luster of a metal is due to?

Ans : presence of free electrons

- **1255** The number of water molecules present in a drop of water (volume 0.0018 ml) at room temperature is?

Ans : 6.023 x 1019

- **1256** The most malleable metal is?

Ans : gold

- **1257** The oil used in the froth floatation process is?

Ans : pine oil

- **1258** The number of waves in n x 10th Bohr's orbit are?

Ans : n

- **1259** The mass of one Avogadro number of helium atom is?

Ans : 4.00 gram

- **1260** The items amenable to detection by soft x-rays are?

Ans : genuine coins from counterfeit coins

- **1261** The material which can be deformed permanently by heat and pressure is called a?

Ans : thermoset

- **1262** The mass number of a nucleus is?

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Ans : the sum of the number of protons and neutrons present in the nucleus

- **1263** The inexpensive and commonly used variety of glass is called soda glass. It is called so because?

Ans : is made using soda(sodium carbonate)

- **1264** The gas used in the manufacture of vanaspati from vegetable oil is?

Ans : hydrogen

- **1265** The ionic radii of N3-; O2-; F- and Na+ follows the order?

Ans : N3- > O2- > F- > Na+

- **1266** The graphite rods in the nuclear reactor?

Ans : convert fast moving neutrons into thermal neutrons

- **1267** The first metal used by man was?

Ans : copper

- **1268** The hydronium ion is?

Ans : H3O+

- **1269** The method that cannot be used for removing permanent hardness of water is?

Ans : boiling

- **1270** The gas used for artificial ripening of green fruit is?

Ans : ethylene

- **1271** Zone refining is used for the purification of?

Ans : Ge

- **1272** The main chemical constituent of the oil of cardamom which is responsible for flavour of this oil is?

Ans : cineole

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· **1273** he high reactivity of fluorine is due to?

Ans : its high electro negativity

· **1274** The iron ore magnetite consists of?

Ans : Fe2O3

· **1275** The ionisation energy of hydrogen atom in the ground state is x KJ. The energy required for an electron to jump from 2nd orbit to 3rd orbit is?

Ans : 5x/36

· **1276** The major constituent of air is?

Ans : nitrogen

· **1277** The main chemical constituent of clay is?

Ans : aluminium silicate

· **1278** The mineral containing both magnesium and calcium is?

Ans : dolomite

· **1279** he metal does not give H2 on treatment with dilute HCL is?

Ans : Ag

· **1280** The number of g-molecule of oxygen in 6.02 x 1024CO molecules is?

Ans : 5 gram of molecule

· **1281** The most extensive; commercially useful source of thorium as monazite sand occurs in India at?

Ans : Travancore coast

· **1282** The main active constituent of tea and coffee is?

Ans : caffeine

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· **1283** The maximum number of isomers for an alkene with molecular formula C4H8 is?

Ans : 4

· **1284** The hardest form of carbon is?

Ans : diamond

· **1285** The most important ore of aluminium is?

Ans : bauxite

· **1286** The organic reaction represented by equation CH3 - CH = O + H2NOH gives CH3 - CH - NH + H2O is an example of?

Ans : a condensation reaction

· **1287** The number of electrons presents in H+ is?

Ans : zero

· **1288** The hottest part of the gas flame is known as?

Ans : non-luminous zone

· **1289** The human body is made up of several chemical elements; the element present in the highest proportion (65%) in the body is?

Ans : oxygen

· **1290** The isomerism which exists between CH3CHCI2 and CH2CI. CH2CI is?

Ans : positional isomerism

· **1291** The number of waves made by an electron moving in an orbit having maximum magnetic quantum number is +3?

Ans : 4

· **1292** The number of atoms present in 21.6 gram of silver (atomic weight = 108) are same as the molecules in?

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Ans : 12 moles of KMnO4

· **1293** The National Chemical Laboratory is situated in?

Ans : Pune

· **1294** The mass number of an atom is equal to?

Ans : the number of nucleons

· **1295** The maximum number of covalent formed by nitrogen is?

Ans : 4

· **1296** The formula C6H5-CO-CH3 represents?

Ans : Acetophenone

· **1297** The metal that is usually extracted from sea water is?

Ans : Mg

· **1298** The method of concentrating the ore which makes use of the difference in density between ore and impurities is called?

Ans : levigation

· **1299** The inert gases are ____ in water?

Ans : sparingly soluble

· **1300** The molecular formula of phosphorous is?

Ans : P4

· **1301** The names of the scientists; Newlands; Mendeleev; and Meyer are associated with the development of?

Ans : periodic table of contents

· **1302** Bosch Process is used for the industrial preparation of is related to?

Ans : Hydrogen

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- **1303** Caster process is related to?

Ans : Sodium

- **1304** Down's process is related to?

Ans : Sodium

- **1305** Nelson cell is related to?

Ans : Sodium Hydroxide (NaOH)

- **1306** Caster Kellner cell is related to?

Ans : Sodium Hydroxide (NaOH)

- **1307** Lowing process is related to?

Ans : Sodium Hydroxide (NaOH)

- **1308** Solvay process is related to?

Ans : Sodium carbonate (Na2CO3) & Bicarbonate of Soda (NaHCO3)

- **1309** Leblanc process is related to?

Ans : Sodium carbonate (Na2CO3)

- **1310** Precht process is related to?

Ans : Potassium carbonate (K2CO3)

- **1311** Mac Arthur Forrest process (Cyanide) is related to?

Ans : Silver (Ag)

- **1312** Parke's process is related to?

Ans : Silver (Ag)

- **1313** Cupellation process is related to?

Ans : Silver (Ag) (purification)

- **1314** Pattison's process is related to?

Ans : Silver (Ag)

- **1315** Baeyer's process is related to?

Ans : Aluminum (Al)

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- **1316** Serpeck's process is related to?

Ans : Aluminum (Al)

- **1317** Hoope's process is related to?

Ans : Aluminum (Al) (purification)

- **1318** Hall- Heroult process is related to?

Ans : Aluminum (Al)

- **1319** Goldschmidt process is related to?

Ans : Thermite welding

- **1320** Carter process is related to?

Ans : Basic lead carbonate

- **1321** Haber's process is related to?

Ans : Ammonia (NH3)

- **1322** Birkeland –Eyde process is related to?

Ans : Nitric Oxide (NO); Nitric Acid (HNO3)

- **1323** Oswald process is related to?

Ans : Nitric Oxide (NO); Nitric Acid (HNO3)

- **1324** Deacon's process is related to?

Ans : chlorine (Cl2)

- **1325** Lead Chamber process is related to?

Ans : Sulfuric Acid (H2SO4)

- **1326** Contact process is related to?

Ans : Sulfuric Acid (H2SO4)

- **1327** Kaldo and L.D process is related to?

Ans : Steel

- **1328** Corey-House is related to?

Ans : Alkane

- **1329** Oxo process is related to?

Ans : Alcohol

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- **1330** Dow's Sea water process is related to?

Ans : Magnesium (Mg)

- **1331** Pidgeon process is related to?

Ans : Magnesium (Mg)

- **1332** Cyanamide process is related to?

Ans : Ammonia (NH3)

- **1333** Bessimer-Thomas process is related to?

Ans : Steel

- **1334** Simens's process is related to?

Ans : Steel

- **1335** Frasch process is related to?

Ans : Sulphur

- **1336** IMI process is related to?

Ans : Titanium (Ti)

- **1337** Mond process is related to?

Ans : Nickel (Ni)

PHYSICS

- **1** Father of Nuclear Physics?

Ans : Ernest Rutherford

- **2** Father of Indian Nuclear Programme?

Ans : Homi.J. Bhabha

- **3** Two types of Units are?

Ans : Fundamental Units and Derived Units

- **4** Fundamental units can be expressed in 3 kinds of measuring systems such as?

Ans : CGS; MKS and FPS

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· **5** The Units which are derived from fundamental units?

Ans : Derived Units

· **6** Modified form of MKS System?

Ans : SI (System International)

· **7** Globally approved form of unit system is?

Ans : SI system

· **8** Physical quantities are divided into?

Ans : Scalar quantity & Vector quantity

· **9** Physical quantity having only magnitude, but no direction?

Ans : Scalar quantity eg : Mass; Length; Time etc

· **10** Physical quantity having both magnitude and direction?

Ans : Vector quantity eg: Velocity; Momentum; Force etc

· **11** 99% of matter in the Universe is in?

Ans : Plasma form

· **12** Fifth state of matter?

Ans : Bose Einstein condensate

· **13** Bose Einstein condensate was first predicted by?

Ans : Sathyendra Nath Bose and Albert Einstein

· **14** The pure Bose Einstein was first created by?

Ans : Eric Cornell and Carl Wieman

· **15** The quark model of matter was discovered by?

Ans : Murray Gell Mann and George Sick

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· **16** The particle made up of quarks and Gluons?

Ans : Hadrons

· **17** Most stable form of hadrons are?

Ans : Protons and Neutrons

· **18** The energy carriers in the matter?

Ans : Bosons$

· **19** Bosons which carry electromagnetic force are?

Ans : Photons

· **20** Bosons which carry weak nuclear force?

Ans : W & Z Bosons

· **21** Bosons which carry strong nuclear force are?

Ans : Gluons

· **22** Higgs Boson was discovered on?

Ans : 2012 july 4

· **23** Particle which is known as 'God particle'?

Ans : Higgs Boson

· **24** The particle which gives the property of mass to the matter?

Ans : Higgs Boson

· **25** The particle which is considered the building blocks of all life?

Ans : Higgs Boson

· **26** Higgs Boson was discovered at?

Ans : CERN

· **27** The Indian scientist related to the term Boson?

Ans : Sathyendra Nath Bose

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- **28** Unit of work is?

Ans : louie or Nm

- **29** In CGS System the unit of work is?

Ans : erg [1 joule = 10^7erg]

- **30** The rate of doing work is called?

Ans : Power [Power = Work/Time]

- **31** Unit of power is?

Ans : Watt or joule/sec

- **32** Power is a?

Ans : scalar quantity

- **33** Power is Measured in?

Ans : Horse power [1 Horse power =746 watt]

- **34** The capacity to do a work is called?

Ans : Energy

- **35** Unit of energy is?

Ans : Joule

- **36** The energy developed on a body when a work done on that?

Ans : Mechanical energy

- **37** Two types of Mechanical energy are -?

Ans : Kinetic energy and Potential energy

- **38** Energy possessed by a body due to its motion is called?

Ans : Kinetic Energy

- **39** If velocity is doubled, kinetic energy become?

Ans : Four times

- **40** If the mass of a moving body is doubled, its kinetic energy is?

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Ans : Doubled

· **41** Energy possessed by a body, by virtue of its position is called?

Ans : Potential Energy [PE = mgh] [m=mass; g = acceleration due to gravity; h = height]

· **42** Energy stored in a compressed string is?

Ans : Potential Energy

· **43** Energy stored in a water reservoir is?

Ans : Potential Energy

· **44** Potential energy of an object at a ground level is?

Ans : Zero

· **45** Potential energy increases as the height?

Ans : Increases

· **46** When a free falling object approaches the earth, its potential energy?

Ans : Decreases

· **47** Law of Conservation of Energy is put forward by?

Ans : Albert Einstein (E =mc2 (m = mass; C = Velocity of light)

· **48** Einstein proposed the Special Theory of Relativity in?

Ans : 1905

· **49** Einstein proposed the General Theory of Relativity in?

Ans : 1915

· **50** The change in posltion of an object over time is called?

Ans : Motion

· **51** Actual length travelled by a body is called?

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Ans : Distance

· **52** Shortest distance from the initial to the final position of a body is called?

Ans : Displacement.

· **53** The study of particles or bodies when they are at rest or in motion is dealt with?

Ans : Mechanics

· **54** Mechanics is divided into two, they are?

Ans : Statics & Dynamics

· **55** The study of objects of-rest is called?

Ans : Statics

· **56** The study of moving objects is called?

Ans : Dynamics

· **57** The product of mass and velocity of a body?

Ans : Momentum [P= mv [m=Mass; v=velocity]

· **58** Unit of Momentum is?

Ans : kg m/s

· **59** A Karate player in order to break a brick hits quickly because of?

Ans : Momentum

· **60** Issac Newton propounded his law of motion is his book?

Ans : Principia Mathematica

· **61** Propulsion of rocket is explained by which law of motion?

Ans : Newton's Third law of motion

· **62** Swimming is explained by which law of motion?

Ans : Newton's Third law of motion

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· **63** Flying of Birds is explained by which law of motion?

Ans : Newton's Third law of motion

· **64** A property of a body which is unable to change its state by itself in the absense of external force called?

Ans : Inertia

· **65** The Law of inertia was discovered by?

Ans : Galileo

· **66** Which are the three types of inertia?

Ans : Inertia of Rest; Inertia of Motion and Inertia of Direction

· **67** An athlete runs some distance before taking a long jump is example of?

Ans : Inertia of motion

· **68** As the train starts moving, a man sitting inside leans backward is an example of?

Ans : Inertia of rest

· **69** Rotating wheel of an automobile throw out mud tangentially outward is an example of?

Ans : Inertia of direction

· **70** If a rotating body spins on its axis, its motion is called?

Ans : Spin motion or rotation motion

· **71** When an object travels around another object it is known as?

Ans : Revolution

· **72** The motion of an object in a vertical plane under the influence of gravitational force is known as?

Ans : Projectile motion

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· **73** Projectile path is known as?

Ans : Trajectory

· **74** A projectile reaches maximum range, when angle of projection is at?

Ans : 450

· **75** The path of the projectile is always a?

Ans : Parabola

· **76** An influence that changes the state of rest in a straight line of a body is called?

Ans : Force F= ma [m = mass; a = acceleration]

· **77** Unit of Force is?

Ans : Newton or Kg m/s2

· **78** CGS unit of Force is -?

Ans : Dyne

· **79** Strongest force in the universe is?

Ans : Nuclear force

· **80** Weakest force in the universe, ?

Ans : Gravitational Force

· **81** Force acting for a short time?

Ans : Impulsive force

· **82** Force which acts on a body moving in a circular path and it is directed towards centre is called?

Ans : Centripetal force

· **83** The force required by a Vehicle moving round a curved road is?

Ans : Centripetal force

· **84** Force that acts on a body moving in a circular path and is directed away from the centre is called?

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Ans : Centrifugal force

· **85** The force that helps to separate cream from milk is?

Ans : Centrifugal force

· **86** Capability of rotating objects around a fixed axis is called?

Ans : Torque

· **87** Force that resists the movement of one surface over another is called?

Ans : Frictional Force

· **88** The substances which reduce the frictional force between moving surfaces?

Ans : Lubricants eg : Grease; Oil; Graphite

· **89** Force acts in a direction opposite to the direction of motion is?

Ans : Static friction

· **90** Force occurs when two objects are moving relative to each other or rub together is?

Ans : Kinetic friction

· **91** Force acts when two bodies role one another?

Ans : Rolling friction

· **92** Force of attraction between unlike molecules is termed as?

Ans : Adhesion

· **93** Water drop sticks on glass surface is an example of ....force?

Ans : Adhesion

· **94** Force of attraction between like molecules is termed as?

Ans : Cohesion

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· **95** Water molecules join together is an example of ....force?

Ans : Cohesion

· **96** Frictional force acting between parallel layers of a liquid is called?

Ans : Viscosity

· **97** Unit of viscosity is?

Ans : Poise

· **98** With increase in temperature, viscosity .?

Ans : Decreases

· **99** Viscosity of gas is less than viscosity of?

Ans : Liquid

· **100** Viscosity of an ideal fluid is?

Ans : Zero

· **101** Liquids having low viscosity are called?

Ans : Mobile liquids eg : Water; Kerosene; Alcohol; Petro

· **102** Fluids flow with zero viscosity is called?

Ans : Super fluids eg : Honey; Coaltar; Glycerine etc

· **103** The property of a liquid by which the free surface of liquid acts like a stretched membrane?

Ans : Surface tension

· **104** Surface tension is caused due to?

Ans : Unbalanced molecular cohesive force

· **105** Surface tension is inversely proportional to temperature and?

Ans : Pressure

· **106** Surface tension of hot water is less than that of?

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Ans : Cold water

- **107** Insects walking over the water surface can be explained by?

Ans : Surface tension of water

- **108** Spherical shape of rain drops can be explained by?

Ans : Surface tension of water

- **109** Capillary phenomenon is due to?

Ans : surface tension

- **110** Rise of water level in plants is due to?

Ans : surface tension

- **111** Ability of a body to return to its original shape is called?

Ans : Elasticity

- **112** The force per unit area is called?

Ans : Pressure [Pressure = Force/Area]

- **113** The SI Unit of pressure=?

Ans : Pascal or N/m2

- **114** Unit of thrust is?

Ans : Newton

- **115** CGS unit of thrust is?

Ans : dyne /cm2

- **116** Force acts more on objects having?

Ans : Low Surface area

- **117** Atmospheric pressure =....?

Ans : 760mm of Mercury

- **118** Unit of Atmospheric pressure?

Ans : Bar 1 bar = 10^5 pascal

- **119** Pressure at sea level is taken as the?

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Ans : Standard Atmospheric Pressure

· **120** Barometer is used to calculate?

Ans : Atmospheric Pressure

· **121** The liquid used in Barometer?

Ans : Mercury

· **122** Sudden fall of mercury level in Barometer indicates?

Ans : Storm

· **123** Rising level of mercury in Barometer indicates?

Ans : Calm climate

· **124** Force of attraction between any two bodies in the universe is called?

Ans : Gravitation

· **125** Law of gravitation was discovered by?

Ans : Sir Isaac Newton

· **126** Weakest force in nature?

Ans : Gravitational Force

· **127** The force keeps the earth and other planetary objects in their orbits around the sun?

Ans : Gravitational Force

· **128** The acceleration with which the freely falling bodies are attracted towards the earth is called the?

Ans : Acceleration due to gravity (g)

· **129** Weight of freely falling body?

Ans : Zero

· **130** At the Center of earth Acceleration due to gravity (g) is?

Ans : zero

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· **131** Acceleration due to gravity (g) is maximum at?

Ans : polar regions

· **132** Acceleration due to gravity (g) is minimum at?

Ans : Equatorial regions

· **133** Universal Law of Gravitation was put forward by?

Ans : Sir Isaac Newton

· **134** The 'g' is maximum on Jupiter and minimum on the planet?

Ans : Mercury

· **135** Astronaut cannot drink lemonade with the help of a straw because?

Ans : There is no atmosphere on the moon

· **136** Minimum speed which a body must have to escape from the earth's gravitational force is called?

Ans : Escape Velocity

· **137** Escape velocity of moon?

Ans : 2.4 km/s

· **138** Escape velocity of earth?

Ans : 11.2km/s

· **139** Escape velocity of planet Jupiter?

Ans : 60km/s

· **140** Escape velocity of planet Mercury?

Ans : 4.2km/s

· **141** Escape velocity of the planets increases with its?

Ans : Mass

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· **142** Scientific study of light?

Ans : Optics

· **143** Light is an?

Ans : Electromagnetic Wave &. Transverse wave;

· **144** Light travels through air or vacuum at a speed of 3?

Ans : x 108m/s

· **145** Order of speed of light?

Ans : water < glass.< air < vacuum

· **146** Velocity of light is greater than the?

Ans : Sound

· **147** Light reaches earth from sun in?

Ans : 8 minutes 20semnds (500 seconds)

· **148** Substances which do not pass light through them are called?

Ans : Opaque substances eg : paper; storie

· **149** Substances which allow light to pass through them are called?

Ans : Transparent substances eg : glass

· **150** Wave theory of light was proposed by?

Ans : Christian Huygens

· **151** Electromagnetic theory of light was proposed by?

Ans : James Clark Maxwell

· **152** 'The Corpuscular theory' related to light was proposed by?

Ans : Isaac Newton in 1675

· **153** The shadow obtained from a point source is a region of darkness which is called?

Ans : Umbra

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· **154** The band of seven colours obtained due to the dispersion of white light is called?

Ans : Visible Spectrum

· **155** When frequency increases wave length?

Ans : Decreases

· **156** Colour with maximum frequency is?

Ans : Violet

· **157** Colour with minimum frequency is?

Ans : Red

· **158** Colour with maximum wavelength is?

Ans : Red

· **159** Colour with minimum wavelength is?

Ans : Violet

· **160** The colour that deviates maximum through glass prism is?

Ans : red

· **161** The colour that deviates minimum through glass prism is?

Ans : Violet

· **162** Colour used in laboratory for indicating danger?

Ans : Yellow

· **163** Colour sensitive to human eye?

Ans : Yellow

· **164** Colour used as danger signal?

Ans : Red

· **165** Corpuscular theory was propounded by?

Ans : Isaac Newton

· **166** Wave theory was propounded by?

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Ans : Christiaan Huygens

· **167** Quantum Theory was propounded by?

Ans : Max Planck

· **168** Electromagnetic theory was propounded by?

Ans : James Clark Maxwell

· **169** Photo electric effect was propounded by?

Ans : Heinrich Hertz

· **170** Which surface reflects all form's of light and heat?

Ans : white surface

· **171** Which surface absorbs all forms of light and heat?

Ans : black surface

· **172** Red light passing through a green object, appears?

Ans : Black?

· **173** Why the Sky appears blue?

Ans : Due to the shorter wavelength of blue colour; it is scattered more than the red colour of longer wavelength

· **174** Primary colours are?

Ans : Red; Green; Blue

· **175** Primary colours used in colour television are?

Ans : Red; Green; Blue

· **176** Colour television uses?

Ans : Additive colour mixing

· **177** By mixing suitable mixture of primary colours gives?

Ans : Secondary colours

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· **178** The branch of physics which deals with the measurement of light. emitted by objects is called?

Ans : Photometry

· **179** Tertiary colours are obtained by?

Ans : Mixing up of two secondary colours

· **180** The substances used in colour paints, filters, plastics and other materials?

Ans : Pigments

· **181** Subtractive colour mixing is used in?

Ans : Pigments

· **182** For printing, colour pigments used are?

Ans : Yellow; Magenta; Cyan

· **183** The light rays consist of small energy packets called?

Ans : Quantum

· **184** Quantum of light is known as?

Ans : Photon

· **185** Quantum Theory was put forward by?

Ans : Max Planck

· **186** Absorption of light of one wave length by a substance and the re-emission of light of greater wavelength is called?

Ans : Fluorescence

· **187** Emission of light in the visible region after absorbing certain electromagnetic radiations is called?

Ans : Photoluminescence

· **188** Photoelectric Effect was proposed by?

Ans : Heinrich Hertz

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· **189** Photoelectric Effect was explained by?

Ans : Albert Einstein

· **190** For his explanation of Photoelectric Effect, he got Nobel prize for Physics in?

Ans : 1921

· **191** The Law of Photoelectric Effect was formulated by?

Ans : Albert Einstein

· **192** The working principle of solar cells?

Ans : Photoelectric Effect

· **193** When a ray of light falls on a smooth surface and returns to the same medium, it is called?

Ans : Reflection of light

· **194** An object which reflects all colours appears as?

Ans : White

· **195** An object which absorbs all colours appears as?

Ans : Black

· **196** The bending of light when a ray of light travels from one medium to another is called.?

Ans : Refraction

· **197** Snell's law is related with?

Ans : Refraction

· **198** Twinkling of stars is due to?

Ans : Refraction of light

· **199** A pond looks shallow is due to?

Ans : Refraction of light

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· **200** Stick appears to be bended, when immersed in water is due to?

Ans : Refraction of light

· **201** Early sunrise and late sunset is due to?

Ans : Refraction of light

· **202** Mirage is due to?

Ans : Refraction of light

· **203** Due to change of medium the phase velocity of the wave is changed but its frequency remains?

Ans : Constant

· **204** Fatamorgana is a term associated with?

Ans : Mirage

· **205** The measure of optical density of the medium is?

Ans : Refractive index

· **206** Refractive index of a medium is calculated by?

Ans : Speed of light in vacuum/Speed of light in medium$

· **207** Refractive index of water is?

Ans : 1.33

· **208** Refractive index of vacuum is?

Ans : 1

· **209** Refractive index of ice is?

Ans : 1.31

· **210** Refractive index of diamond is?

Ans : 2.42

· **211** The complete reflection of a light ray reaching an interface with a less dense medium when the angle of incidence exceeds

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the critical angle is called Total Internal?

Ans : Reflection

· **212** The father of fibre optics?

Ans : Narendra Singh Kapani

· **213** Sparkling of diamond is due to?

Ans : Total Internal Reflection of light

· **214** Working principle of optical fibres is?

Ans : Total Internal Reflection

· **215** Glittering of water bubbles is due to?

Ans : Total Internal Reflection

· **216** The splitting up of light ray into different colours is called?

Ans : Dispersion

· **217** Dispersion was discovered by?

Ans : Sir Isaac Newton

· **218** Rainbow is formed due to?

Ans : Reflection; Refraction and Dispersion of light

· **219** Main principle due to the formation of rainbow?

Ans : Dispersion

· **220** Rainbow is seen as circle from?

Ans : Space

· **221** Rainbow is seen as semi-circle from?

Ans : Earth

· **222** Rainbow appears in the opposite direction of?

Ans : Light

· **223** Red colour angle in rainbow?

Ans : 42.8°

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· **224** Violet colour angle in rainbow?

Ans : 40.8°

· **225** Colour at top of a rainbow is?

Ans : Red

· **226** Colour at bottom of a rainbow is?

Ans : Violet

· **227** Colour at centre of a rainbow is?

Ans : Green

· **228** The phenomenon that occurs when two waves meet while travelling along the same medium?

Ans : Interference

· **229** Interference was observed first by?

Ans : Thomas Young

· **230** Different colour of the soap foam is due to?

Ans : Interference of light

· **231** Oil spread in water glitters due to?

Ans : Interference of light

· **232** The bending of light around the corners of an obstacle or aperture into the region of geometrical shadow of the obstacle is called?

Ans : Diffraction

· **233** The fuzzy uneven edges of shadow can be explained by?

Ans : Diffraction of light

· **234** Principle behind the working of projector in a film theatre can be explained by?

Ans : Diffraction of light

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· **235** Fringes pattern in CD can be explained by?

Ans : Diffraction of light

· **236** The reflection of a ray from a straight path due to particles, or in the interface between two media is called?

Ans : Scattering of Light

· **237** Reddening of sun at sunrise and sunset shadow can be explained by?

Ans : Scattering of light

· **238** The blue colour of the sky and sea can be explained with?

Ans : Scattering of light

· **239** Colour lamp used in fog for vehicles is?

Ans : Yellow light

· **240** On moon, sky appears black colour due to the absence of?

Ans : Scattering of light

· **241** The scientist who first explained the blue colour of the sky is?

Ans : Rayleigh

· **242** The scientist who explained the blue colour of sea?

Ans : C.V.Raman

· **243** Scattering of light due to colloidal particle is termed as?

Ans : Tyndal effect

· **244** Which mirror is used as a shaving mirror?

Ans : Concave mirror

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· **245** Which mirror is used as Reflector in solar cooker?

Ans : Concave mirror

· **246** Which mirror is used as Reflector in astronomical telescope?

Ans : Concave mirror

· **247** Which mirror is used as Searchlight and head light of automobiles?

Ans : Concave mirror

· **248** Which mirror is used as Used by dentists and ENT specialists?

Ans : Concave mirror

· **249** Which mirror is used as burning glass?

Ans : Concave mirror

· **250** Which mirror is used in torches?

Ans : Concave mirror

· **251** Which mirror is used as Rearview mirror in automobiles?

Ans : Convex mirror

· **252** A transparent medium bounded by two surfaces atleast one of which is curved surface is called?

Ans : Lens

· **253** The lens thicker at the middle than in edges is called?

Ans : Convex Lens

· **254** The lens thicker at edges than in the middle?

Ans : Concave lens

· **255** The unit of power of lens?

Ans : Dioptre

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· **256** Power and focal length of convex lens?

Ans : Positive

· **257** The power and focal length of concave lens?

Ans : Negative

· **258** Lens in human eye?

Ans : Convex lens

· **259** Image formed in concave lens?

Ans : Virtual and erect

· **260** Converging lens is an alternative name of?

Ans : convex lens

· **261** Diverging lens is an alternative name of?

Ans : concave lens

· **262** An alternative name of Converging mirror is?

Ans : concave mirror

· **263** An alternative name of Diverging mirror is?

Ans : convex

· **264** Image formed in Convex lens?

Ans : Real and inverted

· **265** The shortest distance for clear vision is?

Ans : 25cm

· **266** Twenty - Twenty vision means?

Ans : Perfect vision mirror

· **267** Myopia/Short sightedness can be corrected by using?

Ans : concave lens

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· **268** Hypermetropia /Iong sightedness Can be corrected by using?

Ans : convex lens

· **269** Both Myopia and hypermetropia can be corrected using?

Ans : bifocal lenses

· **270** Astigmatism can be corrected by using?

Ans : cylindrical lens

· **271** Presbyopia can be corrected by?

Ans : convex lenses

· **272** Persistence of vision of human eye?

Ans : 1/16 seconds

· **273** Full form of LASER is?

Ans : Light Amplification by Stimulated Emission of Radiation

· **274** LASER was discovered by?

Ans : Theodore Maiman (1960)

· **275** Full form of MASER is?

Ans : Microwave Amplification by Stimulated Emission of Radiation

· **276** MASER was discovered by?

Ans : Charles.H.Towns

· **277** Full form of RADAR is?

Ans : Radio Detection and Ranging

· **278** RADAR was invented by?

Ans : Albert H.Taylor and Leo C. Young

· **279** The phenomenon of confining the vibrations of a transverse to a particular. . direction is called-?

Ans : Polarisation

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· **280** A natural polarizing material is?

Ans : Tourmaline

· **281** Brewster's Law is associated with?

Ans : Polarisation of Light

· **282** A change in frequency of light wave when the source or the observer moves with respect to one another is called?

Ans : Doppler effect

· **283** High pitch of the siren of an approaching ambulance which passes an observer is due to?

Ans : Doppler effect

· **284** The pattern of arrangement of different types of electromagnetic radiations in the order of increasing wavelength?

Ans : Electromagnetic spectrum

· **285** Maximum wavelength of electromagnetic wave?

Ans : Radio waves

· **286** Waves used for communication through satellite?

Ans : Microwaves

· **287** Electromagnetic waves with shorter wavelength?

Ans : X-rays

· **288** Two types of X-rays are?

Ans : Soft X-rays & Hard X-rays

· **289** X-rays were Discovered by?

Ans : Roentgen

· **290** Rays used to study the internal atomic structure of crystal?

Ans : X-rays

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· **291** Rays appear to be originated from outside of earth is called ?

Ans : Cosmic rays

· **292** Cosmic rays was discovered by?

Ans : Victor Hess

· **293** Infrared Rays was discovered by?

Ans : William Herschel

· **294** Heat rays emitted by sun is?

Ans : Infrared rays

· **295** Rays is used in TV remote is?

Ans : Infrared rays

· **296** Rays is used in distant photography is?

Ans : Infrared rays

· **297** Heat of sun is due to?

Ans : Infrared rays

· **298** The electromagnetic radiation with wavelength ranging from 10nm to 380nm?

Ans : Ultraviolet Rays

· **299** The rays used for identifying the counterfeit currency is?

Ans : Ultraviolet Rays

· **300** The rays Used to fill inside the tube lights is?

Ans : Ultraviolet Rays

· **301** The rays Used to disinfect equipment used for operation is?

Ans : Ultraviolet Rays

· **302** The rays that causes sunburn is?

Ans : Ultraviolet Rays

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· **303** Two types of waves are?

Ans : Longitudinal wave & Transverse wave

· **304** Particles vibrate parallel to the direction of propagation of wave in?

Ans : Longitudinal wave

· **305** Sound wave is an example of?

Ans : Longitudinal wave

· **306** Particles vibrate perpendicular to the direction of propagation of wave is?

Ans : Transverse wave

· **307** Light wave is an example of?

Ans : Transverse wave

· **308** The distance between two successive crests or troughs is?

Ans : Wavelength

· **309** The maximum displacement of vibrating particle on either side from the equilibrium position is?

Ans : Amplitude

· **310** The spatial frequency of a wave, either in cycles per unit distance or radians per unit distance is called?

Ans : Wave Number

· **311** Earthquake waves are?

Ans : Infrasonic waves

· **312** A form of energy which produces sensation of hearing?

Ans : Sound

· **313** Sound requires a .... to travel?

Ans : Medium

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- **314** Sound cannot travel through?

Ans : Vacuum

- **315** Study of sound is called?

Ans : Acoustics

- **316** Velocity of sound in air?

Ans : 340m/s

- **317** Velocity of sound is maximum in?

Ans : Solids

- **318** Velocity of sound is least in?

Ans : Gases

- **319** Sound has the maximum speed in?

Ans : Steel

- **320** The sound producing organ in human is called, ?

Ans : Larynx

- **321** To and fro motion of a body is called?

Ans : Oscillation

- **322** Fastoscillations are called?

Ans : Vibrations

- **323** The intensity of sound is measured in?

Ans : Decibel

- **324** The number of oscillations made in one second is called?

Ans : Frequency

- **325** Unit of frequency -?

Ans : Hertz (Hz)

- **326** Frequency of audible sound is?

Ans : 20Hz to 20; 000 Hz

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· **327** The machine used to reproduce sound?

Ans : Phonogram

· **328** The method of locating under water objects using sound waves?

Ans : SONAR (Sound Navigation and Ranging)

· **329** Waves used in SONAR are?

Ans : Ultrasonic waves

· **330** The phenomena of sound which is used in stethoscope?

Ans : Reflection of sound

· **331** The unit which is usually used to denote the intensity of pollution?

Ans : Parts per million (ppm)

· **332** Normal sound level in decibel?

Ans : 60-120 db

· **333** The intensity of sound felt by the ear?

Ans : Loudness

· **334** The shrillness of sound felt by the ear is?

Ans : Pitch

· **335** Used to denote the speed of a supersonic plane?

Ans : Mach Number

· **336** 1 Mach number is equal to?

Ans : 340 m/s

· **337** Persistence of sound?

Ans : 1/10 seconds

· **338** Ultrasound scanning uses high frequency?

Ans : Ultrasonic waves

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· **339** Echo and reverberation are due to the reflection of?

Ans : Sound

· **340** Minimum distance required for the production of echo?

Ans : 17 meter

· **341** Phenomenon utilized by bats to detect prey and obstacles in their path in night?

Ans : Echolocation

· **342** For echolocation bats use?

Ans : Ultrasonic sound

· **343** Depth of the sea is measured in?

Ans : Fathom

· **344** 1 fathom =...?

Ans : 6 feet = 1.82 m

· **345** It is an indication of object's internal energy or it is the degree of hotness/ coldness?

Ans : Temperature

· **346** Heat is measured in the unit of?

Ans : Joule (J)

· **347** The study of materials and phenomena at low temperature?

Ans : Cryogenics

· **348** The temperature scale not having Negative temperature is?

Ans : Kelvin scale

· **349** The amount of heat required to raise the temperature of 19m of water by 1°C?

Ans : One calorie

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· **350** The instrument used for measuring high temperature?

Ans : Pyrometer

· **351** Amount of heat required to raise the, temperature of unit mass of a substance by 1°C is known as?

Ans : Specific Heat Capacity

· **352** Substance having the highest specific heat capacity is?

Ans : Water

· **353** The temperature above which a gas cannot be liquefied?

Ans : Critical temperature

· **354** Element with the highest specific heat is?

Ans : Hydrogen

· **355** Absolute Zero is?

Ans : 0 Kelvin = -273.15°C

· **356** The temperature which shows same measurement in Celsius and in Fahrenheit Scale?

Ans : -40

· **357** Temperature which shows same measurement in Fahrenheit and in Kelvin Scale?

Ans : 574.25

· **358** Process of exchange of hotter particles to the neighbouring colder particles is known as?

Ans : Conduction

· **359** In solids, heat transfer takes place by?

Ans : Conduction

· **360** Transfer of heat from hotter region carrying heat to a colder region is called?

Ans : Convection

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· **361** In liquid and gas, heat transfer takes place by?

Ans : Convection

· **362** Land breeze and sea breeze is due to?

Ans : Convection

· **363** Ocean currents Monsoon and trade winds are based on the principle of?

Ans : Convection

· **364** Transmission of heat from one point to another without heating' the medium is called?

Ans : Radiation

· **365** Heat from the sun reaches the earth by?

Ans : Radiation·

· **366** Thermometer was invented by?

Ans : Galelio

· **367** Mercury Thermometer was Invented by -?

Ans : Farenheit

· **368** Clinical Thermometer was Invented by -?

Ans : Thomas Allbutt

· **369** Normal temperature of human body?

Ans : 36.9°C (98.4°F; 310 K)

· **370** Thermo Flask was Invented by?

Ans : Sir lames Dewar

· **371** Thermo Flask prevents heat loss by?

Ans : Conduction and convection

· **372** Glass used in thermo flask?

Ans : Borosilicate glass

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· **373** Substances which easily allows electricity to flow through them is called?

Ans : Conductors eg: silver; copper; mercury etc

· **374** Substances which does not allow electricity to pass through it is called?

Ans : Insulators eg: plastic; mica; rubber; dry air etc

· **375** Substances which allow electricity to flow through them partially?

Ans : Semiconductors eg: Germanium; Silicon

· **376** Mica is a good conductor of heat but bad conductor of?

Ans : Electricity

· **377** Copper and Aluminium are the metals commonly used in?

Ans : Electric circuit

· **378** Insulators used in electrical system?

Ans : Porcelain or Glass

· **379** Almost every liquid expands with increase in?

Ans : Temperature

· **380** When the temperature of water is increased from 0°C to 40, the volume?

Ans : Decreases

· **381** If the temperature is increased above 40 the volume starts?

Ans : Increasing

· **382** Temperature at which water has least volume and high density?

Ans : 40°C

· **383** Water expands on?

Ans : Freezing

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· **384** Water pipes break in winter in cold regions due to?

Ans : Freezing

· **385** Tendency of matter to change in volume in response to change in temperature is called?

Ans : Thermal Expansion

· **386** All substances expand on?

Ans : Heating

· **387** Mercury thermometer works on the principle of?

Ans : Thermal Expansion

· **388** Matter which expand most on heating?

Ans : Gases

· **389** Property of a material to conduct heat is called?

Ans : Thermal conductivity

· **390** Unit of thermal conductivity?

Ans : Watts per meter Kelvin (W/mK)

· **391** Co-efficient of thermal conductivity?

Ans : K Factor

· **392** The rate of cooling of hot water will be faster than the?

Ans : Tap water

· **393** In a refrigerator, cooling is produced by the evaporation of a?

Ans : Volatile liquid

· **394** The amount of water vapour present in air is called?

Ans : Humidity

· **395** When humidity occurs, perspiration is?

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Ans : Maximum

· **396** The process by which a substance is changed from solid state to liquid state is called?

Ans : Melting

· **397** The fixed temperature at which a substance is changed from solid state to liquid state is called?

Ans : Melting point

· **398** Melting point of ice can be raised by the decrease of?

Ans : Pressure

· **399** Melting point of Mercury is?

Ans : 39°C

· **400** Melting point of Alchohol is?

Ans : 114°C

· **401** Melting point of Ice is?

Ans : 0°C

· **402** When liquid boils and changes itself into vapour at standard atmospheric pressure is called?

Ans : Boiling point

· **403** When pressure increases boiling point?

Ans : Increases

· **404** Boiling point of water?

Ans : 100°C

· **405** Water inside a pressure cooker boils at a 'temperature of?

Ans : 120°C

· **406** Sublimation is the process of conversion of a solid directly into?

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Ans : Vapour eg: camphor

· **407** Sublimation occurs when boiling point is less than?

Ans : Melting point

· **408** The process of conversion of liquid into vapour at any temperature?

Ans : Evaporation

· **409** Rate of evaporation increases with increase in temperature, surface area and decrease in?

Ans : Pressure

· **410** While sweating under a fan we feel cool because of?

Ans : Evaporation

· **411** A perfectly black body absorbs all types of?

Ans : Heat radiations

· **412** Absorption power of perfectly black body is?

Ans : 1

· **413** Device used to measure the temperature of Sun?

Ans : Pyroheliometer

· **414** Study of high temperature?

Ans : Pyrology

· **415** The radiation emitted from a black body is called?

Ans : Black body radiation

· **416** The rate of flow of charge through a conductor per second is called?

Ans : Current

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• **417** SI unit is of current?

Ans : Ampere (A)

• **418** Electric charge was first observed in a substance called?

Ans : Amber

• **419** Unit of electric charge?

Ans : Coulomb

• **420** 1 coulomb (c) =?

Ans : 6.24 X 1018 electrons

• **421** Charge of an electron =..?

Ans : 1.6 x 10^-19C

• **422** The region which surrounds the electrically charged particles?

Ans : Electric field

• **423** The term electricity is coined by?

Ans : Gilbert

• **424** Law of electrolysis were formulated by?

Ans : Michael Faraday

• **425** The process of splitting up of a chemical substance when an electric current flows through it?

Ans : Electrolysis

• **426** A good conductor of electricity?

Ans : Mercury

• **427** The capacity of an electric field to do work on an electric charge?

Ans : Electric potential

• **428** Pure water is a bad conductor of electricity because pure water does not dissociate into?

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Ans : Ions

- **429** Electro magnetism was discovered by?

Ans : Hans Christian Oersted

- **430** Positively charged particles lose?

Ans : Electrons

- **431** Negatively charged particles gain?

Ans : Electrons

- **432** Electricity is divided into two?

Ans : (1) Static electricity (2) Dynamic electricity

- **433** The electric charge built upon a material as a static mode?

Ans : Static electricity

- **434** The type of electric charge flows from one point to another through the conductors, cables etc?

Ans : Dynamic electricity

- **435** Dynamic electricity are of two types?

Ans : (a) Alternating current (AC) (b) Direct current (DC)

- **436** Electricity supplying for domestic use is?

Ans : Alternating Current

- **437** Unidirectional flow of electric charge?

Ans : Direct Current

- **438** DC is formerly known as?

Ans : Galvanic current

- **439** Batteries, solar cells etc produce?

Ans : DC

- **440** The device used to convert AC to DC?

Ans : Rectifiers

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· **441** The device used to convert DC to AC?

Ans : Oscillator

· **442** The device which conducts DC but blocks AC is?

Ans : Inductor

· **443** When one coulomb charge is carried from one place to another, the work done is called?

Ans : Electric potential difference

· **444** SI unit of electrical potential difference is?

Ans : Volt

· **445** The e.m.f or potential difference measured in volt is called?

Ans : Voltage

· **446** Property of some crystals to develop an electromotive force when subjected to mechanical stress is called?

Ans : Piezo Electricity

· **447** Quartz Crystal in watches work on the principle of?

Ans : Piezo Electricity

· **448** Piezo Electricity was discovered by?

Ans : Pierre Curie and Jacques Curie

· **449** The property of a material due to which it opposes the flow charge through it?

Ans : Resistance

· **450** Unit of resistance is?

Ans : Ohm (n)

· **451** Conductivity is inversely proportional to?

Ans : Resistance

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· **452** Unit of conductivity is?

Ans : Siemens

· **453** The metal having lowest resistance?

Ans : Silver

· **454** The instrument used to control the resistance?

Ans : Rheostat

· **455** Nichrome is used as heating element in many appliances because of?

Ans : High resistivity

· **456** Super conductivity was discovered by?

Ans : Kamerlingh Onnes

· **457** At very low temperature, super conductivity possesses?

Ans : Zero resistance

· **458** A super conductor above 100 K?

Ans : Ceramics

· **459** Fuseis used to avoid?

Ans : Overloading of current in electric circuit

· **460** Fuse is made from an alloy of?

Ans : Lead and Tin

· **461** Fuse has?

Ans : low melting point and high resistivity

· **462** When a charged body is connected to the earth it 'gets neutralised. It is called?

Ans : Earthing

· **463** Colour of positive wire in domestic circuits is?

Ans : Red/Brown

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· **464** Colour of Neutral wire in domestic circuits is?

Ans : Black/Blue

· **465** Colour of earth wire in domestic circuits is?

Ans : Green

· **466** A number of cells connected together are called?

Ans : Battery

· **467** A source of emf containing two or more cells is called?

Ans : A battery

· **468** Rechargeable batteries like mobile phones, torches uses?

Ans : Nickel and Cadmium

· **469** The negative electrode in a dry cell is?

Ans : Cathode eg: zinc

· **470** The positive electrode in a dry cell is?

Ans : Anode eg: carbon rod

· **471** Cell was first invented by?

Ans : Alessandro Volta

· **472** Cell is otherwise known as?

Ans : Voltaic Cell

· **473** Dry cell was invented by?

Ans : Carl Gassner

· **474** In primary cell, chemical energy is converted into?

Ans : Electrical energy eg : Daniel cell; Dry cell etc

· **475** Potential difference measured in volt is called?

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Ans : Voltage

· **476** The electrical potential for a source in a circuit is called?

Ans : EMF

· **477** The emf of a voltaic cell?

Ans : 1 volt

· **478** Emf of mercury cell?

Ans : 1.35 volt

· **479** The emf of a dry cell?

Ans : 1.5 volt

· **480** Voltage of a torch cell?

Ans : 1.5 volt

· **481** Emf of Lithium ion battery?

Ans : 3.6 volt

· **482** The rate of production of electrical energy per unit time?

Ans : Electric power

· **483** Electricity supplied for domestic use is?

Ans : Alternating Current (AC)

· **484** Electricity for. domestic purpose. is measured In?

Ans : Kilowatt hour (Kwh)

· **485** Kilowatt hour is commonly called as?

Ans : Units [1 KWh :0:. 1000 watt x 3600 seconds]

· **486** The commercial unit of electrical energy is also?

Ans : KWh

· **487** The technique used in the electric circuits in house hold purpose to protect appliances?

Ans : Short Circuiting

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· **488** Instrument used to measure the amount of electric energy used by a consumer?

Ans : Watt hour meter

· **489** Electric power transmission was developed by?

Ans : Thomas Alva Edison

· **490** The supply voltage produced in India?

Ans : 11KV (Kilovolt) or 11000 volt

· **491** Voltage range for household purpose?

Ans : 220-230 volt

· **492** Q The frequency of household electric current in India is?

Ans : 50 Hertz

· **493** The study of nature, control and application of electrons?

Ans : Electronics

· **494** Vacuum tubes work on the principle of?

Ans : Thermionic emission

· **495** The simplest form of a vacuum tube?

Ans : Diode

· **496** The device used to convert alternating current (AC) to Direct Current (DC)?

Ans : Rectifiers

· **497** The device which converts DC energy into AC energy?

Ans : Electronic oscillator

· **498** The process which makes the current to pass in the same direction is called?

Ans : Rectification

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· **499** Now thermionic valves are completely replaced by'?

Ans : Transistors

· **500** Miracle child of electronics?

Ans : Transistor

· **501** Triode was invented by?

Ans : Lee De Forest

· **502** Element used in solar cells?

Ans : .Silicon

· **503** Materials whose conductivity lies between conductors and insulators '?

Ans : Semi conductors

· **504** Examples of semiconductors are?

Ans : Germanium; Silicon

· **505** Semi conductor in pure state is called?

Ans : Intrinsic Semiconductors

· **506** In intrinsic, number of holes is equal to' number of?

Ans : Electrons

· **507** The process to improve conductivity?

Ans : Doping

· **508** Process of adding controlled impurities to a pure semiconductor is known as?

Ans : Doping

· **509** The substances used for doping?

Ans : Dopants

· **510** An intrinsic semiconductor undergoes doping, change into?

Ans : Extrinsic semiconductor

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- **511** Extrinsic are of two types:?

Ans : (1) N-type semiconductor (2) P-type semiconductor

- **512** In N-type, charge carriers are?

Ans : Electrons

- **513** The electronic device which has semiconducting property that allows current to flow in one direction?

Ans : Diode

- **514** Diode is mostly used to convert?

Ans : AC to DC

- **515** Diode is used as a?

Ans : Rectifier

- **516** Zener diode is used as?

Ans : Voltage regulator

- **517** A semiconductor device used to amplify or switch electronic signals and electrical . power?

Ans : Transistor

- **518** Three regions of a transistor?

Ans : Emitter; Base; Collector

- **519** Transistor transfers a signal from a low resistance to?

Ans : High resistance

- **520** Transistor was invented by?

Ans : John Bardeen; W.H. Brattain and William Shockley

- **521** Electronic intelligence is called?

Ans : ELINT

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· **522** The circuits that act as transistors, diodes, resistors etc is called?

Ans : Integrated Circuits

· **523** 'IC' chips are made up of?

Ans : Silicon or Germanium

· **524** IC Chip was invented by?

Ans : Jack Kilby

· **525** IC chip using Silicon was invented by?

Ans : Robert Noyce

· **526** The electronic circuit which works only on two voltage levels (0 and 1) is called?

Ans : Gates

· **527** Voltage levels in a circuit is either represented by?

Ans : '1' or '0'

· **528** The level '1' represents?

Ans : High voltage level

· **529** The level '0' represents?

Ans : Zero voltage level

· **530** Wireless radio communication was developed by?

Ans : Guglielmo Marconi

· **531** First telecommunication device was?

Ans : Telegraph

· **532** The frequencies transmitted by TV station is called?

Ans : Channel

· **533** For radio transmission BBC uses?

Ans : Short waves

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· **534** Short waves ranging from 14mto 60m are used for?

Ans : International communication

· **535** The waves which travel long distances without loss in intensity?

Ans : Short waves (14m to 60m)

· **536** Electro magnetic spectrum between 30MHzand 300 MHz is called?

Ans : VHF

· **537** VHF is used in?

Ans : Radio Transmission and Radar

· **538** Frequency ranging from 300 MHZ to 3 GHz is called?

Ans : VHF

· **539** Full form of Telex is?

Ans : Teleprinter Exchange

· **540** The device used for communicating the text and images through telephone lines?

Ans : Fax machine

· **541** The device used to convert audio frequency signals into sound?

Ans : Loudspeaker

· **542** The instrument which has ability to convert sound into magnetic energy?

Ans : Tape recorder

· **543** The phenomenon of attraction of a substance by a magnet is called?

Ans : Magnetism

· **544** A naturally occurring magnet?

Ans : Lodestone

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· **545** Magnetism was first discovered in?

Ans : Lodestone

· **546** Every magnet has two poles, they are?

Ans : A North pole and a South pole

· **547** Like poles of a magnet .... and unlike poles.....?

Ans : repel; attract

· **548** The field around a magnet where its magnetic effect is felt?

Ans : Magnetic field.

· **549** Permanent magnet is made up of?

Ans : Alnico

· **550** Electromagnet is made up of?

Ans : Pure Iron

· **551** Molecular theory of magnetism was proposed by?

Ans : Weber

· **552** The magnetism of a substance decreases while on?

Ans : Heating or hammering

· **553** In a magnet the magnetic line of force are from?

Ans : North to South pole

· **554** Artificial magnets made by the use of electricity are called?

Ans : Electromagnets

· **555** The instruments which are dependent of magnetic power of electricity are?

Ans : Fan; telephone receiver; dynamo etc

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· **556** The scientist who stated that the earth behaves as a huge magnet?

Ans : William Gilbert

· **557** A Magnetic force of attraction at the centre of bar magnet?

Ans : Zero

· **558** A coil of insulated wire bound on a rod shaped form made of solid iron is called?

Ans : Solenoid

· **559** The unit of magnetic flux density?

Ans : Tesla

· **560** Unit of magnetic flux?

Ans : Weber

· **561** Substances acquire strong magnetism in the direction of magnetic field?

Ans : Ferromagnetic substances eg: Nickel; Iron; Cobalt

· **562** Strongest type of magnetism?

Ans : Ferro magnetism

· **563** Refrigerator magnet is?

Ans : Ferro magnet

· **564** Ferro magnetism was discovered by?

Ans : Louis Neel

· **565** Substance acquire feeble magnetism in the direction of magnetic field is called?

Ans : Paramagnetic Substances eg: Platinum; Oxygen; manganese etc

· **566** Paramagnetic substances is temperature dependent Substances acquire weak magnetism in the direction opposite to the magnetic field is called?

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Ans : Diamagnetic substances eg: inert gases; alcohol; copper; gold; water; hydrogen etc.

· **567** Substance used for making electromagnets is?

Ans : Soft iron

· **568** Electromagnets are used in?

Ans : Electric bells; telephones and telegraphs

· **569** An object made from a material that is magnetized and creates its own persistent magnetic field is called ?

Ans : Permanent magnet

· **570** Powerful permanent magnets are made from?

Ans : Alnico

· **571** Alnico is an alloy of?

Ans : Aluminium; Nickel; Cobalt and Iron

· **572** Some organisms can detect magnetic field. This ability is called?

Ans : Magnetoception

· **573** Technique using a powerful magnetic field to diagnose and treat diseases?

Ans : MRI (Magnetic Resonance imaging)

· **574** A magnet made by binding insulated copper wire over a soft iron piece and passing an electric current through the wire is called?

Ans : Electro magnet (temporary magnet)

· **575** Bulbs are usually called as?

Ans : Filament lamps or Incandescent lamps

· **576** Gases used to fill inside a filament lamp?

Ans : Argon; Nitrogen

· **577** Life-span of filament lamp?

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Ans : 1000 hours

· **578** The material used for making filament of the bulb?

Ans : Tungsten

· **579** Examples of discharge lamps are?

Ans : Compact fluorescent lamp; Tube lights; vapour lamps

· **580** Average life span of fluorescent lamps?

Ans : 5000 hours

· **581** A mixture of Argon and Mercury gases are filled in?

Ans : Fluorescent lamps

· **582** Phosphor - coating material used in?

Ans : Fluorescent lamps

· **583** Lamps used in advertisement boards?

Ans : Neon vapour lamps

· **584** Energy efficient in lamps means they consume Low energy Electric bulb was Invented by?

Ans : Thomas Alva Edison

· **585** Electrical oscillation was invented by?

Ans : Heinrich Hertz

· **586** National energy conservation day?

Ans : December 14

· **587** The electricity carrying cables buried underground made of?

Ans : Copper

· **588** Colour of Argon vapour lamp is?

Ans : Purple

· **589** Colour of Chlorine vapour lamp is?

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Ans : Green

· **590** Colour of Mercury vapour lamp is?

Ans : White

· **591** Colour of Nitrogen vapour lamp is?

Ans : Red

· **592** Colour of Neon vapour lamp is?

Ans : Orange

· **593** Colour of Sodium vapour lamp is?

Ans : Yellow

· **594** Colour of Hydrogen vapour lamp is?

Ans : Blue

· **595** The production of ail electromotive force (voltage) across an electrical conductor due to its dynamic interaction with a magnetic field is called?

Ans : Electromagnetic Induction

· **596** Electromagnetic induction was proposed by?

Ans : Michael Faraday

· **597** Transformers, Microphones, Induction coil, Generators, Motors, Induction coil work on the principle of?

Ans : Faraday's law of Electromagnetic Induction

· **598** A charge of current in neighbouring coil will induce (contribute) a voltage (emf) in a coil is termed as?

Ans : Mutual Induction

· **599** The coil in which current is changed is called?

Ans : Primary coil

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- **600** The coil in which the e.m.f is produced is called?

Ans : Secondary coil

- **601** Transformer, Generators works on the principle of?

Ans : Mutual Induction

- **602** Energy conversion in Wax candle is?

Ans : Chemical Energy to Heat and Light energies

- **603** Energy conversion in Electric fan is?

Ans : Electrical to Mechanical energy

- **604** Energy conversion in Electric Bell is?

Ans : Electrical to Sound energy

- **605** Energy conversion in Dynamo is?

Ans : Mechanical to Electrical energy

- **606** Energy conversion in Battery is?

Ans : Chemical to Electrical energy

- **607** Energy conversion in Solar cell?

Ans : Solar to Electrical energy

- **608** Energy conversion in Electric oven?

Ans : Electrical to Heat energy

- **609** Energy conversion in Motor is?

Ans : Electrical to Mechanic energy

- **610** Energy conversion in Gass stove is?

Ans : Chemical energy to light and Heat energies

- **611** Energy conversion in Loud Speaker is?

Ans : Electrical energy to Sound energy

- **612** Energy conversion in Microphone is?

Ans : Sound energy to Electrical energy

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· **613** The strongest force of nature is?

Ans : Nuclear force

· **614** Nuclear force acts between the....?

Ans : Nucleons

· **615** The process of changing nucleus of one element into other by the spontaneous emission of certain radiation?

Ans : Radio activity

· **616** SI unit of Radioactivity?

Ans : Becquerel (Bq)

· **617** Another unit of Radioactivity?

Ans : Curie

· **618** Radioactive substances emit 3 types of radiation?

Ans : Alpha; Beta and Gama

· **619** The device used for detecting and measuring radiation?

Ans : Gieger counter

· **620** Product of Natural radioactivity?

Ans : Lead

· **621** Particle with highest ionization energy?

Ans : Alpha

· **622** Particle with least ionization energy?

Ans : Gamma

· **623** Particle with highest penetrating power?

Ans : Gamma

· **624** Particle with least penetrating power?

Ans : Alpha

· **625** Particle With highest velocity?

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Ans : Gamma

· **626** Particle with least velocity?

Ans : Alpha

· **627** Radioactive elements used as medicine?

Ans : Phosphorous 32; Iodine 131; Oxygen 15

· **628** Compound used as heavy water?

Ans : Deuterium Oxide (D2O)

· **629** Deuterium is known as?

Ans : Heavy hydrogen

· **630** The radio active isotope used for the treatment of cancer is?

Ans : Cobalt 60

· **631** The process of combining of two lighter nuclei to give a heavier nucleus is called?

Ans : Nuclear fusion

· **632** Nuclear fusion is otherwise called as?

Ans : Thermonuclear reaction

· **633** Hydrogen bomb is based on the principle of?

Ans : Nuclear fusion

· **634** Nuclear fusion was discovered by?

Ans : Hans Bathe

· **635** Isotope of hydrogen used in nuclear fusion?

Ans : Tritium

· **636** The main source of solar energy is?

Ans : Nuclear fusion

· **637** The phenomenon of breaking a heavy nucleus into two light nuclei of almost equal masses along with release of huge amount of

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energy is called?

Ans : Nuclear fission

· **638** Uncontrolled chain reaction is the working principle of?

Ans : Atom Bomb

· **639** Nuclear fission was discovered by?

Ans : Ottohann and Friz strassmann

· **640** Time interval taken by a radioactive substance to disintegrate to half of its initial weight is called?

Ans : Half life

· **641** Radio Carbon (carbon -14) has a half life of?

Ans : 5760 years

· **642** The average lifetime of atoms in a radioactive substance is called?

Ans : Mean life

· **643** Uranium - 235 is known as?

Ans : Enriched uranium

· **644** The technique used to determine the age of fossils of animals and plants?

Ans : Carbon dating

· **645** The technique used to estimate the age of rocks from the moon?

Ans : Uranium dating

· **646** The technique used for finding the age of rocks?

Ans : Rubidium – Strontium dating

· **647** The technique used for calculating the age of caves and sea animals?

Ans : Uranium - Thorium dating

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· **648** Dating method used for determining the age of archaeological materials?

Ans : Thermoluminescence

· **649** Fourth largest source of electricity in India?

Ans : Nuclear power

· **650** First atomic reactor in India?

Ans : Apsara' in Trombay (Maharashtra)

· **651** Chain reaction is allowed to proceed slowly and in a controlled manner in?

Ans : Nuclear reactor

· **652** Fuels used in nuclear reactors are?

Ans : Uranium 233; Uranium 235; Plutonium 239

· **653** The device used to slow down the fast moving secondary neutrons?

Ans : Moderator

· **654** Commonly used moderators are?

Ans : Heavy water; Graphite; Rods of Boron and Cadmium; Berillium oxide

· **655** The substances used to remove the heat produced from the nuclear reactor?

Ans : Coolants

· **656** Coolant used in high temperature breeder reactor?

Ans : Liquid Sodium

· **657** The fuel used in the fast breeder reactors?

Ans : Plutonium; Uranium oxide Power reactors Converts nuclear fission energy into electric power

· **658** Early reactors were known as?

Ans : Atomic piles

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· **659** Atomic clock (ceasium) was discovered by?

Ans : Louis Essen

· **660** The total normal force exerted by a fluid on a surface is called?

Ans : Thrust

· **661** The total gravitational force act on a body?

Ans : Weight {W=mg [m·= mass of the body; g = acceleration due to gravity]}

· **662** Weight of a body is Minimum at?

Ans : the Equator

· **663** Weight of a body is Zero at?

Ans : The centre of Earth

· **664** Weight of a body is maximum at?

Ans : The poles of the Earth

· **665** Weight of a body in moon is equal to?

Ans : 1/6th of the weight of a body on earth

· **666** The amount of matter contained in a body is called?

Ans : Mass

· **667** Density of water is?

Ans : 1000 kg/m3

· **668** Density of water is maximum at?

Ans : 4°C

· **669** Relative density is also known as?

Ans : Specific gravity

· **670** Water occupies maximum volume at?

Ans : - 0°C

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- **671** When ice melts level of water....?

Ans : remains Constant

- **672** When ice melts, its volume.....?

Ans : Decreases

- **673** Why Ice floats on water?

Ans : Density of Ice is less than the density of water

- **674** Why a ship of iron and steel float on water?

Ans : Density of iron is less than the density of water

- **675** Why Iron nail sinks in water?

Ans : Density of iron is less than the density of water

- **676** Why do an iron nail floats on mercury?

Ans : Density of mercury is lessthan the density of iron

- **677** Why a Ship moves from river to sea rises?

Ans : Density of sea water is greater than the little higher density of fresh water

- **678** Why It is impossible to extinguish fire due to petrol with water?

Ans : - Density of water is greater than the density of petrol. So petrol floats above the water and continue burning.

- **679** Why do Ice sinks in alcohol?

Ans : Density of water is greater than the density of alcohol.

- **680** Explain Pascal's law or also known as principle of Transmission of fluid pressure?

Ans : A force exerted on anywhere in a confined incompressible fluid is transmitted equally in all directions

- **681** Pascal's law was discovered by?

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Ans : Blaise Pascal

· **682** The law that explains the working of Hydraulic Press is?

Ans : Pascal's law

· **683** The law that explains the working of Hydraulic jack is?

Ans : Pascal's law

· **684** The law that explains the working of Hydraulic lifts is?

Ans : Pascal's law

· **685** The law that explains the working of Flush tank is?

Ans : Pascal's law

· **686** When a body is immersed partly or wholly in a liquid, a force acts on the body by the liquid in the upward direction. This force is called?

Ans : Buoyant force [Example: A bucket of water weighs less when immersed in water]

· **687** State ARCHIMEDES PRINCIPLE?

Ans : When a body is completely or partly immersed in a fluid; the body experiences an upward thrust which is equal to the weight of fluid displaced by the body

· **688** The law of lever was proposed by?

Ans : Archimedes

· **689** The device used to test the purity of milk.?

Ans : Lactometer

· **690** The majority of UV radiations coming from the sun are absorbed by the?

Ans : Ozone layer

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· **691** Periscopeisa device works on the principle of?

Ans : Reflection and Refraction

· **692** Photometry is the branch deals with the measurement of light emitted by the?

Ans : Objects

· **693** Father of cybernetics?

Ans : Norbert Weiner

· **694** Audible Frequency of sound of Human?

Ans : 20Hz - 20000Hz

· **695** Frequency of sound Less than 20 Hz is?

Ans : Infrasonic

· **696** Frequency of sound Greater than 20000 Hz?

Ans : Ultrasonic

· **697** Tachyon was discovered by?

Ans : ECG Sudharshan

· **698** Wave theory was formulated by?

Ans : Christian Huygens

· **699** Quantum theory was formulated by -?

Ans : Max Planck

· **700** Corpuscular theory was formulated by?

Ans : Isaac Newton

· **701** Who discovered that white light consist of different colours?

Ans : Isaac Newton

· **702** Light is an electromagnetic wave -?

Ans : Heinrich Hertz

· **703** Who discovered the 3 primary colours?

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Ans : Thomas Young

· **704** The term Energy was coined by -?

Ans : Thomas Young

· **705** Who discovered that Speed of light varies in different media?

Ans : Leon Foucault

· **706** Raman effect was discovered by.... on....?

Ans : C.V Raman; Feb. 28; 1928

· **707** Why February 28 is celebrated as National Science Day?

Ans : Discovery of Raman effect

· **708** C. V Raman was awarded Nobel Prize in?

Ans : 1930

· **709** Raman effect is associated with?

Ans : Scattering of light

· **710** Blue colour of sea was explained by?

Ans : C.V. Raman

· **711** Celsius to Kelvin Scale conversion formula is?

Ans : K = C + 273.15

· **712** Kelvin to Celsius C conversion formula is?

Ans : C= K- 273.15

· **713** Father of Indian Space Research?

Ans : Vikram Sarabhai

· **714** Father of Indian Atom Bomb?

Ans : Raja Ramanna

· **715** Father of Hydrogen Bomb?

Ans : Edward Teller

· **716** Father of Atom Bomb?

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Ans : Robert Oppenheimer

· **717** Father of Modern Physics?

Ans : Albert Einstein

· **718** Who discovered Lightening conductor?

Ans : Benjamin Franklin

· **719** Who discovered Bifocal lens?

Ans : Benjamin Franklin

· **720** Who discovered Astronomical telescope?

Ans : Galileo

· **721** Who is known as Father of electricity?

Ans : Michael Faraday

· **722** Law of electrolysis was propounded by?

Ans : Michael Faraday

· **723** Concept of electric field was put forward by?

Ans : Michael Faraday

· **724** Who Invented Dynamo?

Ans : Michael Faraday

· **725** Who discovered Electromagnetic induction?

Ans : Michael Faraday

· **726** Odometer:?

Ans : is an instrument by virtue of which the distance covered by wheeled vehicles is recorded.

· **727** .....is usually used by the crew of a submarine to survey the ships etc, on the surface of the sea while the submarine is under water. It also enables the sailors to observe objects on the other side of an obstacle without exposing themselves..?

Ans : Periscope

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· **728** .....is an instrument used for reproducing sound.?

Ans : Phonograph

· **729** .....is an apparatus used to compare the illuminating power of two sources of light.?

Ans : Photometer

· **730** .....is a glass tube with the aid of which a definite volume of liquid may be transferred.?

Ans : Pipette

· **731** .....is used for comparing the e.m.f.s, of cells, measurements of the thermal e.m.f.s, large potential differences and currents. It is also used for measuring low resistances.?

Ans : Potentiometer

· **732** .....is an instrument for measurement of the humidity of the atmosphere.?

Ans : Psychrometer

· **733** .....is an instrument for recording high temperatures from a great distance (i.e., for recording temperature of the sun etc.) by making use of the laws of radiation.?

Ans : Pyrometer

· **734** ..... is used to detect the direction and range of an approaching aeroplane by means of radio microwaves.?

Ans : Radar

· **735** .....is an apparatus for recording of rainfall at a particular place.?

Ans : Rain Gauge

· **736** .....is an instrument for measuring the emission of radiant energy.?

Ans : Radiometer

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· **737** .....is an instrument to measure refractive indices.?

Ans : Refractometer

· **738** .....is an instrument for determining the amount of sugar in a solution. It is used in breweries.?

Ans : Saccharimeter

· **739** .....is an instrument used for recording earthquake shocks.?

Ans : Seismometer or Seismograph

· **740** .....is an instrument invented by John Hadley used for measuring the altitude of the sun and of other inaccessible heavenly bodies.?

Ans : Sextant

· **741** .....is a type of spectroscope suitable for the precise measurements of refractive indices. & An instrument for measuring the energy distribution of a particular type of radiation.?

Ans : Spectrometer

· **742** .....is an instrument which indicates speed at which a vehicle is moving.?

Ans : Speedometer

· **743** .....is an instrument for measuring curvature of surfaces.?

Ans : Spherometer

· **744** .....is an instrument used for measuring arterial blood-pressure.?

Ans : Sphygmomanometer

· **745** .....is an instrument, with the help of which a pulse beat makes a sound.?

Ans : Sphygmophone

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· **746** .....is an instrument, by virtue of which, arterial pulsations become visible.?

Ans : Sphygmoscope

· **747** .....is a special type of binocular, through which a double photograph snapped from two different angles by a two-lensed camera is viewed in solid relief.?

Ans : Stereoscope

· **748** .....is an instrument to hear and analyse movements of heart and lungs.?

Ans : Stethoscope

· **749** .....is an instrument for recording small intervals of time in the laboratory, in races and other events.?

Ans : Stop watch

· **750** .....is an instrument for viewing objects moving rapidly with a periodic motion and to see them as if they were at rest.?

Ans : Stroboscope

· **751** .....is an instrument for determining speeds of aeroplanes and motor boats.?

Ans : Tachometer

· **752** .....an instrument which prints automatically messages sent from one place to another, on telegraph lines.?

Ans : Telephone

· **753** .....is a device by virtue of which two persons at two different places can communicate. It consists of two main parts (i) a microphone and (ii) a receiver.?

Ans : Teleprinter

· **754** .....is an apparatus used for observing distant objects.?

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Ans : Telescope

· **755** .....is an instrument for measuring horizontal and vertical angles.?

Ans : Theodolite

· **756** .....is an instrument based on thermoelectricity used for measuring temperatures.?

Ans : Thermocouple

· **757** .....is an apparatus used for measuring temperature.?

Ans : Thermometer

· **758** .....is an instrument used to regulate the temperature to a particular degree.?

Ans : Thermostat

· **759** .....is an instrument to measure viscosity.?

Ans : Viscometer

· **760** What is the unit of potential difference?

Ans : Volt

· **761** Knot is used for measuring?

Ans : Speed of ships

· **762** Unit of work?

Ans : Joule

· **763** Unit of viscosity of fluid?

Ans : Poise

· **764** Decibel is the unit for measuring the intensity of?

Ans : Sound

· **765** What is the S.I. unit of pressure?

Ans : Pascal

· **766** One angstrom is equal to?

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Ans : 10-10m

· **767** How many Pascal is the atmospheric pressure?

Ans : 105 Pascal

· **768** What is the S.I. unit of magnetic field strength?

Ans : Ampere per metre

· **769** Which is the smallest unit of distance used in Nuclear Physics?

Ans : Fermi

· **770** The unit used to measure radio activity?

Ans : Becquerel

· **771** What is the unit of frequency?

Ans : Hertz

· **772** The power of the Engine is calculated by?

Ans : Horse Power (One Horse Power = 746 watt)

· **773** The unit of Capacitance?

Ans : Farad

· **774** The unit of Inductance?

Ans : Henry

· **775** The unit of atmospheric pressure?

Ans : Bar (One Bar=76cm of Hg)

· **776** Unit of force?

Ans : Newton

· **777** Unit of Electric charge?

Ans : Coloumb

· **778** Unit of Electric resistance?

Ans : Ohm What is the use of Barometer?

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· **779** The unit which is used to calculate the distance between the Galaxy?

Ans : parsec (Parallactic second)

· **780** The largest unit of distance?

Ans : parsec (1parsec= 3×1013km)

· **781** Electric power is measured by?

Ans : Watt

· **782** SI unit of temperature?

Ans : Kelvin

· **783** Unit of luminous intensity is?

Ans : Candela

· **784** The SI unit of wavelength of light is?

Ans : Angstrom

· **785** The unit used to measure the depth of the sea is?

Ans : Fathom One fathom = 6 feet

· **786** The unit of distance in astronomy is?

Ans : Light year

· **787** The Unit of power of lens is?

Ans : Dioptre

· **788** Which instrument converts mechanical energy into electrical energy?

Ans : Dynamo

· **789** Which instrument converts light energy into electric energy?

Ans : Photo electric cell

· **790** Which instrument used to convert A.C. current to D.C. current?

Ans : Rectifier

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· **791** Which is the instrument employed to change the voltage in an electric circuit?

Ans : Transformer

· **792** What is the use of Altimeter?

Ans : To measure the altitude

· **793** What is the use of Ammeter?

Ans : To measure the flow of electric current in a circuit

· **794** What is the use of Anemometer?

Ans : To measure the force or speed of the wind

· **795** What is the use of Electroscope?

Ans : To measure the electrostatic charge

· **796** What is the use of Calorimeter?

Ans : To measure the amount of heat

· **797** What is the use of Speedometer?

Ans : To indicate the speed of a vehicle

· **798** What is the use of Fathometer?

Ans : To measure the depth of water (1 fathom = 6 ft)

· **799** What is the use of Periscope?

Ans : To observe objects of the surface from the submarine

· **800** What is the purpose of Mariner's compass?

Ans : To find out the direction of the ship in the sea

· **801** What is the use of Steroscope?

Ans : To see the photos taken by two cameras placed at two different angles

· **802** What is the use of Hygrometer?

Ans : To measure the humidity of atmosphere.

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- **803** What is the use of Galvanometer?

Ans : To measure electric currents

- **804** What is the use of Microscope?

Ans : To magnify tiny objects

- **805** What is Lactometer?

Ans : device used to measure the relative density of milk to determine its purity

- **806** The device that uses radio waves to detect the position of objects such as Aeroplanes, missiles etc.?

Ans : Radar

- **807** What is Pyrometer?

Ans : Used to record high temperature from a great distance

- **808** What is Hydrophone?

Ans : It is used for recording of sound inside water

- **809** What is an electric oscillator?

Ans : It converts Direct Current into Alternating Current

- **810** What is cyclotron?

Ans : It is a device for producing high energy subatomic particles

- **811** What is Geiger - Muller counter?

Ans : It is used for detecting and measuring radio active radiation

- **812** What is a nuclear reactor?

Ans : It is the Central component of a nuclear power station; which generates nuclear energy under controlled conditions. What is the use of Microphone?

- **813** What is a hydrometer?

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Ans : It is used for measuring the density of liquids directly.

- **814** What is venturimeter?

Ans : It is used for measuring flow of liquids

- **815** What is Radar?

Ans : Radar is Radio Detection and Ranging

- **816** When a force acting on a body produces displacement, it is called?

Ans : Work

- **817** What is called the capacity to do work?

Ans : Energy

- **818** Rate of doing work is called?

Ans : Power 1 horse power = 746 watt

- **819** Energy by virtue of which a body can do mechanical work is called?

Ans : Mechanical Energy

- **820** Which are the two forms of mechanical energy?

Ans : Kinetic energy & Potential energy

- **821** The energy possessed by a body because of its velocity is?

Ans : Kinetic energy

- **822** Kinetic energy is proportional to?

Ans : mass of the body & square of its velocity

- **823** The energy possessed by a body because of its position or change in shape is called?

Ans : Potential energy

- **824** What happens to the potential energy when the height of a body from the ground is doubled?

Ans : Potential energy is also doubled

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· **825** The energy possessed by the water collected in the reservoir of a dam?

Ans : potential energy

· **826** If the velocity of a body is increased, its kinetic energy?

Ans : increases

· **827** The SI Unit of?

Ans : Work - joule power - watt energy - joule

· **828** Energy of one form can be changed to another form. The process is called?

Ans : Energy Transformation

· **829** What is the potential energy of a body on the ground?

Ans : Zero

· **830** Which is the main source of energy to earth?

Ans : Sun

· **831** In the sun, which is converted into energy?

Ans : Matter

· **832** What is called a device which reduces human effort?

Ans : Machine

· **833** What is called the ratio of the resistance to the effort when they balance each other?

Ans : Mechanical advantage of a simple machine

· **834** What is called 'lever'?

Ans : A rigid rod which can rotate about a point fulcrum is called a lever.

· **835** What is first order lever?

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Ans : In first order lever Fulcrum is between the resistance and effort.

- **836** Write some examples of the first order levers:?

Ans : Balance; scissors; spanner

- **837** What is second order lever?

Ans : In second order lever resistance lies between the Fulcrum and effort

- **838** Write examples of second order lever?

Ans : Nut cracker; Wheel barrow; Bottle opener Who proved the existence of seven colours in sunlight?

- **839** What do you mean by the third order lever?

Ans : The effort is in between the resistance and the fulcrum

- **840** Write examples of third order lever?

Ans : Fire tongs; forceps; ice tongs

- **841** What changes is done in a dynamo?

Ans : Mechanical energy is converted into electrical energy.

- **842** What is the unit of work in the C.G.S. system?

Ans : Erg

- **843** When a body falls freely work is done by?

Ans : Gravitational force

- **844** One watt is equal to?

Ans : One Joule / second

- **845** "State the law of conservation of energy":?

Ans : Energy can neither be created nor destroyed although it can be transformed from one form to another

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· **846** When is work always done on a body?

Ans : When it experience an increase in energy through a mechanical influence

· **847** The unit of Speed and Velocity is?

Ans : m/sec

· **848** The unit of acceleration?

Ans : metre/sec^2

· **849** A quantity which possess only magnitude is called a?

Ans : scalar quantity

· **850** Distance, Mass, Temperature, Time etc. are examples of which quantity?

Ans : Scalar quantity

· **851** A quantity which possess both magnitude and direction is known as?

Ans : Vector quantity

· **852** Examples of vector quanties are?

Ans : (1) velocity (2) acceleration (3) force (4) displacement

· **853** "If there is no external force, a body at rest continues to be at rest and a body in motion continues to move with uniform velocity". This law is known as?

Ans : The Law of Inertia

· **854** Who proposed the Law of Inertia?

Ans : Galileo

· **855** Who proposed the Laws of Motion?

Ans : Isaac Newton

· **856** The distance travelled in unit time is called?

Ans : speed

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· **857** The distance travelled in unit time in a specific direction is called?

Ans : velocity

· **858** Impulse of force?

Ans : is the product of the force and the time during which the force acts on the body.

· **859** The force acting for a very short time?

Ans : impulsive force

· **860** The rate of change of velocity is called?

Ans : acceleration

· **861** The kind of force that opposes relative motion is known as?

Ans : Friction

· **862** The rocket lift - off is based on which law?

Ans : Newton's 3rd Law of Motion

· **863** The minimum speed which a space craft needs to escape earths gravitational force is known as?

Ans : escape speed (escape velocity is wrong because speed is a scalar quantity)

· **864** The escape speed is?

Ans : 11.2 km/s or 7 miles /sec.

· **865** The SI unit of force is?

Ans : Newton

· **866** Which force is needed to change the direction of a moving body?

Ans : External unbalanced

· **867** The momentum of a body depends on what?

Ans : Its mass and velocity

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· **868** Why does the cotton wick in an oil-filled lamp keep on burning?

Ans : In the cotton wick there are innumerable capillaries in which oil continues to rise.

· **869** The upward force which liquid act on bodies immersed in it is called?

Ans : buoyant force

· **870** How does the rise of temperature affect surface tension?

Ans : The surface tension decreases with rise of temperature.

· **871** An iron needle slowly placed on the surface of water floats on it because?

Ans : of its surface tension

· **872** A drop of oil is placed on the surface of water. What will happen to it?

Ans : It will spread as a thin layer

· **873** Soap helps in cleaning the clothes because:?

Ans : It reduces the surface tension of solution

· **874** If the diameter of capillary be doubled, the rise of water in capillary will be?

Ans : Half

· **875** When the distance between two bodies increases, the force between them will?

Ans : Decrease

· **876** The acceleration due to gravity is maximum at the?

Ans : Poles

· **877** The gravitational force on a body placed at the centre of the earth will be?

Ans : Zero

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· **878** The freely falling body appears to be weightless. Why?

Ans : The force exerted by the earth is being used to accelerate the body.

· **879** What is the force that opposes the relative motion of two bodies that are in contact?

Ans : Friction

· **880** The phenomenon of photoelectric effect was first explained by?

Ans : Albert Einstein

· **881** What is the ability of fluids to offer resistance to flow?

Ans : Viscosity

· **882** The frictional force offered by a liquid is called?

Ans : Viscous force

· **883** Examples of viscous liquids?

Ans : Glycerine; Castor oil; Coal tar and honey

· **884** Force of attraction between molecules of the same kind is called?

Ans : Force of cohesion

· **885** Force of attraction between molecules of different kinds is called?

Ans : Force of adhesion

· **886** The internal force developed within a body when forces are applied on it is called?

Ans : Elastic force

· **887** Is steel or rubber more elastic?

Ans : Steel is much more elastic than rubber

· **888** The force between a magnet and a magnetic material or between two magnets is

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called?

Ans : Magnetic force

· **889** The path of the projectile is called?

Ans : trajectory

· **890** The trajectory of a projectile moving under the influence of a constant acceleration is a?

Ans : Parabola

· **891** The projectile has maximum range when the angle of projection is?

Ans : 450

· **892** Why does an athlete run some distance before taking a long jump?

Ans : By running the athelets gives himself larger inertia of motion

· **893** What is Newton's third law of motion?

Ans : To every action there is an equal and opposite reaction

· **894** The "theory of relativity" was explained by?

Ans : Albert Einstein

· **895** Albert Einstein got the Nobel Prize for Physics in 1921 for explaining?

Ans : Photo Electric Effect

· **896** The incapability of a body to change by itself its state of rest or its state of uniform motion along a straight line?

Ans : Inertia

· **897** According to Newton's third law every force is accompanied by an equal and opposite force. Then how can a movement take place?

Ans : Action and reaction act on different bodies

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· **898** Swimming is possible on account of?

Ans : Third law of motion

· **899** When we jump out of a boat standing in water it moves?

Ans : Backward

· **900** A man is at rest in the middle of a pond on perfectly smooth ice. He can get himself to the shore by making use of Newton's?

Ans : Third law

· **901** A cannon after firing recoils due to?

Ans : Newton's third law of motion

· **902** Newton's second law gives the measure of?

Ans : Force

· **903** The ability of a solid to return to its original shape, on the removal of the external force is called?

Ans : Elasticity

· **904** If a solid does not regain its original shape and size, when the deforming force is removed, it is called?

Ans : Plastic

· **905** Substances which can be elastically stretched to large values of strain are called?

Ans : elastomers

· **906** An elastomer in human body?

Ans : Aorta

· **907** The mass per unit volume of a substance is known as its?

Ans : density

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· **908** The ship entering from a river in to sea rises up a little. Why?

Ans : The density of a sea water is higher than that of river water

· **909** An iron nail floats on mercury but sinks in water, why?

Ans : The specific density of iron is lower than that of mercury and higher that that of water

· **910** Clouds float in the atmosphere because of their low.....?

Ans : density

· **911** Whenever a body is immerced partially or completely in a fluid, it experiences an upward force. This is called,?

Ans : buoyancy

· **912** Icebergs float in sea water because the density of ice is?

Ans : less than water

· **913** The shape of rain drop is spherical due to?

Ans : surface tension

· **914** The force of attraction between the molecules of same material is called?

Ans : Cohesive force

· **915** The force of attraction between molecules of two different material is called?

Ans : adhesive force

· **916** The most characteristic property of liquid is?

Ans : fluidity

· **917** Newton/metre^2 is the unit of?

Ans : pressure

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· **918** When salt is added to water, its surface tension?

Ans : increases

· **919** A body is floating in a liquid, the upthrust on the body is?

Ans : equal to the weight displaced

· **920** The sudden fall of atmospheric pressure predicts?

Ans : storm

· **921** Substances that reduces friction are called?

Ans : lubricants

· **922** The heat energy required to raise the temperature of one gram of water by 1°C is called one?

Ans : calorie

· **923** 1 calorie equals?

Ans : 4.2 joules

· **924** The quantity of heat required to raise the temperature of unit mass of a substance by 1°C is called its?

Ans : specific heat

· **925** Which liquid possess lowest specific heat?

Ans : Mercury

· **926** The temperature at which a solid substance gets converted into a liquid is called its?

Ans : melting point (fusion point)

· **927** The temperature at which a liquid gets converted into vapour state is called its?

Ans : boiling point (vaporization point)

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• **928** The temperature at which the vapour gets converted into liquid is called?

Ans : condensation point

• **929** The temperature at which a liquid gets converted into a solid is called?

Ans : freezing point

• **930** The temperature which is equal in Fahrenheat Scale and Kelvin Scale?

Ans : 574.25k = 574.250 F

• **931** The process in which a liquid changes into its vapour from its surface at a temperature below its boiling point is called?

Ans : evaporation

• **932** Specific heat of water is?

Ans : 4200J/Kg°C

• **933** The coolant used in car radiator is?

Ans : water

• **934** The transfer of heat between different parts of the body or from one body to another in contact with it is called?

Ans : conduction

• **935** The process of transfer of heat from one point of a fluid to another part of a fluid by the movement of fluid itself is called?

Ans : convection

• **936** The transmission of heat from one place to another without heating the medium is called?

Ans : radiation

• **937** Solar energy is received by the earth through which process?

Ans : Radiation

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· **938** In a pressure cooker, cooking is faster because of .....?

Ans : increased boiling point

· **939** Absolute zero is the temperature at which?

Ans : molecular motion stops

· **940** What do you mean by heat?

Ans : Heat is the agent which gives the sensation of hotness against coldness of the body

· **941** What is meant by the temperature of a body?

Ans : It is the degree of hotness

· **942** What is boiling point?

Ans : It is the temperature at which a liquid boils

· **943** What is absolute zero?

Ans : It is the temperature at which the atoms of a substance become stationary (-273°C or 0°K)

· **944** An ordinary clock loses time in summer. This is because:?

Ans : the length of pendulum increases and time period decreases

· **945** Sun rays reach on earth by?

Ans : radiation

· **946** How does in a vacuum flask silvering reduce the loss of heat?

Ans : By radiation

· **947** In the celsius temperature scale, what is the absolute zero of temperature?

Ans : -273.15°C

· **948** Why gas thermometers are more sensitive than liquid thermometers?

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Ans : Because gases expand more than liquids

- **949** Who propounded Ohm's law?

Ans : George Simon Ohm It will bend towards the metal with lower thermal expansion coefficient.

- **950** What is critical pressure?

Ans : It is the pressure required to liquefy a gas at the critical temperature

- **951** What is critical volume?

Ans : It is the volume occupied by one gram of gaseous substance at critical temperature and critical pressure

- **952** Which is dew point?

Ans : Temperature at which given volume of air becomes just saturated with water vapour actually present in it.

- **953** Which produces more severe burns?

Ans : Steam

- **954** Which factor is not needed to calculate heat lost or gain when there is no change of state?

Ans : Relative density

- **955** What is the maximum density of water?

Ans : 4°C

- **956** Transfer of heat takesplace in liquids and gases mostly by?

Ans : convection

- **957** The temperature which is equal in celcius scale and Farenheat scale?

Ans : -40

- **958** The surface of water in a lake is just slowly being frozen. What is the temperature of water at the bottom of the lake?

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Ans : 4°C

· **959** Paraffin wax contracts on solidication. What is the melting point of wax?

Ans : Increase with pressure

· **960** Alcohol is more volatile than water why?

Ans : Because its boiling point is lower than water

961 The snow on the mountains does not melt all at once when it is heated by the sun. Why?

Ans : Because it has a high latent heat of fusion

962 What is an ideal gas?

Ans : Ideal gas is that which cannot be liquefied

963 The rate of transfer of heat is maximum in?

Ans : Radiation

964 What happens when we go up in the atmosphere?

Ans : The pressure decreases

965 What is the lowest possible temperature?

Ans : -273.16°C

966 What is humidity?

Ans : The amount of water vapour in the air is termed as humidity

967 Which liquid is used in a thermometer?

Ans : Mercury

968 The change in the direction of light as it passes from one medium to another is called?

Ans : refraction

969 The phenomenon of splitting of white light into seven colours is known as?

Ans : dispersion

970 Rainbow is formed by?

Ans : dispersion

971 When light is dispersed, the colour which is dispersed least is?

Ans : red The phenomenon of natural radioactivity was discovered by the scientist:?

972 During dispersion, which colour shows maximum deviation?

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Ans : violet
973 When light falls on an object, a part of it is reflected in all directions. This process is called?

Ans : scattering
974 Light travels in a straight line. This property is known as?

Ans : rectilinear propagation of light
975 Materials which transmit almost all light rays through them are known as?

Ans : Transparent
976 Materials which transmit only a small part of the light rays are called?

Ans : Translucent
977 Materials which do not pass light through them are called?

Ans : Opaque
978 All colours are reflected by a?

Ans : white object
979 All colours are absorbed by a?

Ans : black object
980 We see lightning first and hear the thunder later because of?

Ans : velocity of light is greater than the velocity of sound
981 The primary colours are?

Ans : red; blue and green
982 Optical fibre works on the principle of?

Ans : total internal reflection
983 The velocity of light is maximum in?

Ans : vacuum
984 If a flower illuminated by white light reflects red and blue colours, the colour of the flower will be?

Ans : Magenta
985 The splitting up of a composite light into its component colours is called?

Ans : Dispersion
986 Dispersion occurs due to the difference in?

Ans : Wavelength

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987 Any light which is composed of more than one colour is named as?

Ans : Composite light
988 Irregular and partial reflection of light during its passing through a medium is known as?

Ans : Scattering
989 The colour produced by the mixing of green and red is?

Ans : Yellow
990 A green leaf appears green because?

- Ans : it reflects green colour**991** The beautiful colour of the soap foam and oil spread water is due to?

Ans : interference of light

- **992** How does a green leaf appears when it is viewed in a blue light?

Ans : Dark

- **993** The colour used in signal lamp is?

Ans : Red

- **994** The colour of the head lamp in motor vehicles is?

Ans : Yellow

- **995** The heat carried in the solar rays is?

Ans : Infrared radiation

- **996** Sun burn is caused by which radiation?

Ans : Ultraviolet

- **997** At a place when green, red and blue rays overlap, which colour will be seen?

Ans : White

- **998** The distribution of the component colours of a composite light in the order of their wavelength or frequency as a result of dispersion is called?

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Ans : Spectrum

· **999** When wavelength increases the rate of scattering?

Ans : Decreases

· **1000** The property of certain material by virtue of which they absorb light of shorter wavelength and emit light of longer wavelength is called?

Ans : Fluorescence

· **1001** Why can we see pictures with natural effect on a television?

Ans : Due to persistance of vision

· **1002** The colour of light obtained by mixing of any two primary colour of light is?

Ans : Secondary colour

· **1003** Whose theory is called the Quantum theory of light?

Ans : Max Planck's theory

· **1004** Why lightning is observed earlier than the thunder is heard?

Ans : Because light travels faster than sound

· **1005** A photoelectric cell converts?

Ans : Light energy into electric energy

· **1006** Tyndall effect is due to?

Ans : Brownian Motion

· **1007** If a surface absorbs all colours, it sees as?

Ans : Black

· **1008** If a surface reflects all colours, it sees as?

Ans : White

· **1009** Mirage is formed by?

Ans : Refraction and total internal reflection

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· **1010** Why is the sky and sea blue in colour?

Ans : Due to the scattering of light

· **1011** The formation of rainbow is due to which phenomenon of light?

Ans : Refraction and dispersion

· **1012** The colour seen on the outer edge of the rainbow is?

Ans : Red

· **1013** Which colour is obtained when blue light and green light of the same intensities are mixed together?

Ans : Cyan

· **1014** The rays which appears to originate outside the earth?

Ans : the cosmic rays

· **1015** In a doctor's stethescope the sound is intensified because of?

Ans : reflection of sound

· **1016** When sunlight passes through atmosphere, the colour which scatters most is?

Ans : Violet

· **1017** What is called interference?

Ans : The modification of intensity in the region of superimposition.

· **1018** Who suggested the wave theory of light?

Ans : Christian Huygens

· **1019** What is the name of the scientist who suggested that the velocity of light is maximum while propagating through vacuum?

Ans : Focault

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· **1020** The intensity of light depends on?

Ans : Amplitude

· **1021** What is the reason for the formation if beautiful colours on a soap bubble or on a thin film of oil when spread over water?

Ans : Interference

· **1022** Who put forward the theory of electromagnetic radiation?

Ans : Maxwell

· **1023** Who discovered the photoelectric effect?

Ans : Heinrich Hertz

· **1024** What is the velocity of light in vacuum?

Ans : 3 × 108 m/sec.

· **1025** Bending or spreading of light around tiny opaque objects are called?

Ans : Diffraction

· **1026** Which always reduces the velocity of electromagnetic waves?

Ans : Medium

· **1027** The unit of electromagnetic radiants having a certain wavelength and a definite amount of energy is?

Ans : Photon

· **1028** What is directly proportional to the energy of a photon?

Ans : Frequency

· **1029** Shadows have fuzzy uneven edges because of?

Ans : Diffraction

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· **1030** Newton postulated his corpuscular theory of light on the basis of?

Ans : Rectilinear propagation of light

· **1031** How is the temperature of the sun measured?

Ans : Pyrometer

· **1032** The magnifying power of a simple microscope can be increased if we use eye piece of?

Ans : Smaller focal length

· **1033** Large aperture of telescope are used for?

Ans : Greater resolution

· **1034** The image of a distant object as seen through an astronomical telescope is?

Ans : Inverted

· **1035** For the rear view, motorists use?

Ans : convex mirror

· **1036** A man cannot see objects distinctly at a distance less than one metre. He is suffering from?

Ans : Hypermetropia

· **1037** The disease of astigmatism in human eye is because of?

Ans : Unequal and uneven curvature of eye lens

· **1038** The ability of eye to focus the near as well as distant object is called?

Ans : Power of accommodation

· **1039** To remove hypermetropia lens used is?

Ans : Convex

· **1040** A short sighted person uses spectacles fitted with?

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Ans : Concave lenses

· **1041** A cylindrical lens is required to correct?

Ans : Astigmatism

· **1042** The shortest distance of clear vision is?

Ans : 25cm

· **1043** The lens in the human eye?

Ans : convex

· **1044** Flow of electrically charged particles is?

Ans : Electric current

· **1045** Charge flowing in one seond?

Ans : Intensity of electric current

· **1046** Any substance which can offer resistance to the flow of electrons is called a?

Ans : Resistor

· **1047** Name the instrument that converts electrical signals into sound signals?

Ans : Loud Speaker

· **1048** Which instrument is used to change the direction of the flow of current?

Ans : Commutator

· **1049** What is the voltage in house supplyline?

Ans : 230 volts (AC)

· **1050** Which is the principal element used in the production of solar cell?

Ans : Silicon

· **1051** Which instrument converts electrical energy into light energy?

Ans : Electric lamp

· **1052** Which instrument converts electrical energy into mechanical energy?

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Ans : Electric motor

- **1053** What is the unit used to measure electro motive force?

Ans : Volt

- **1054** Which is the commercial unit of electric power?

Ans : k.w.h

- **1055** Which instrument converts sound into electricity?

Ans : Microphone

- **1056** Which battery is used in vehicles?

Ans : Storage battery

- **1057** Tangent galvanometer measures?

Ans : Current

- **1058** The best instrument for the accurate measurement of the EMF of a cell is?

Ans : Potentiometer

- **1059** The resistance of an ideal volt meter is?

Ans : Infinite

- **1060** Short circuit means?

Ans : Direct flow of current between points of the same potentials

- **1061** Best conductor of electricity is?

Ans : Silver

- **1062** The principle on which a quartz crystal in a watch works?

Ans : Piezoelectricity

- **1063** The thickness of certain ceramics changes when a voltage is applied across them this property is called?

Ans : Piezoelectricity

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· **1064** A small piece of wire made from an alloy of lead and tin is used to avoid overloading is?

Ans : Fuse

· **1065** Nichrome is used in the manufacture of heating elements due to its?

Ans : High resistance

· **1066** Device which converts mechanical energy into electrical energy?

Ans : Dynamo; It works on the principle of electro magnetic induction

· **1067** Diode valves can be used as?

Ans : A rectifier

· **1068** A device which can store considerable amount of charge is called?

Ans : Condenser or capacitor

· **1069** The battery used in mobile phone?

Ans : Lithium ion battery

· **1070** Which cell is used in watch?

Ans : Button cell (mercury cell)

· **1071** Which is the weakest kind of bonding in solids?

Ans : Vander Waal's

· **1072** In good conductors of electricity, which type of bonding exists?

Ans : Metallic

· **1073** The conductivity of a intrinsic semi conductor at absolute zero is?

Ans : Zero

· **1074** A transformer is used?

Ans : increase or decrease A.C. voltage

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· **1075** Any material that allows the passage of electricity and heat is called?

Ans : Conductor

· **1076** In artificial satellites, electric current is supplied by?

Ans : Solar cells

· **1077** When a tape recorder operates?

Ans : Magnetic energy is converted into sound energy

· **1078** Energy stored in the dry cells is?

Ans : Electrical

· **1079** Father of electricity?

Ans : Michael Faraday

· **1080** Potential difference in an electric circuit is measured by?

Ans : voltmeter

· **1081** The current in an electrical circuit is measured by?

Ans : ammeter

· **1082** The instrument used to detect the presence and direction of flow of current is called?

Ans : galvanometer

· **1083** The property by which a conductor opposes the flow of electric current through it, is known as?

Ans : resistance

· **1084** Electric current is the flow of?

Ans : electrons

· **1085** The colour of earth wire is generally?

Ans : green

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· **1086** The filament of an electric bulb is made up of tungsten because it possess?

Ans : high melting point and resistance

· **1087** Fuse wire is made up of?

Ans : Tin and Lead (solder)

· **1088** When large current passes through the fuse wire, it melts away. Why?

Ans : Due to the low melting point of tin - lead alloy

· **1089** A device used instead of fuse?

Ans : MCB (Miniature Circuit Breaker - It works on the Principle of magnetic effect of electric current)

· **1090** What is the unit of intensity of Magnetic field?

Ans : Tesla

· **1091** Rubber, plastic, paper, glass, mica etc. are electrical .....?

Ans : insulators

· **1092** Power of an ordinary torch cell is?

Ans : 1.5 volt

· **1093** Magnetic effect of electric current was discovered by?

Ans : Oersted

· **1094** The law of electromagnetic induction have been used in the construction of a?

Ans : generator

· **1095** Which instrument is used to measure magnetic field?

Ans : Fluxmeter

· **1096** The device used for converting current from a lower voltage to a higher voltage is known as?

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Ans : transformer

- **1097** What is electronics?

Ans : Study of behaviour of electrons; their control & use

- **1098** A material which allows only a feeble current to pass through it are called?

Ans : Semiconductors

- **1099** The process of adding certain impurities in the crystal structure of a semiconductor so as to improve its conductivity is called?

Ans : Doping

- **1100** The process of allowing electric current to flow in one direction only is?

Ans : Rectification

- **1101** What is Detection?

Ans : The process of extracting audio signals from the high frequency carrier waves is detection

- **1102** Which device converts alternating current (AC) to direct current (DC)?

Ans : Rectifier

- **1103** Which device convert DC to AC?

Ans : Electric oscillator

- **1104** 'IC' chip for computers are usually made of?

Ans : silicon

- **1105** The common constituent of transistor is?

Ans : germanium

- **1106** What is a sound?

Ans : Sound is a form of energy which produces the sensation of hearing

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- **1107** Sound waves are?

Ans : longitudinal waves

- **1108** The Unit of loudness is?

Ans : Decibel

- **1109** The unit of intensity of light?

Ans : Lambert

- **1110** Sounds with frequencies lower than the lowest limit of human hearing are called?

Ans : infrasonic waves

- **1111** Sounds with frequency higher than 20,000 Hz are known as?

Ans : ultrasonic waves

- **1112** The audible frequency of human ear?

Ans : Between 20 hertz & 20;000 hertz

- **1113** Sounds are distinguished from each other by?

Ans : pitch (frequency) loudness (intensity) and quality

- **1114** Which waves are used in mobile phone?

Ans : Micro waves

- **1115** How is the sound produced?

Ans : By the vibration of material body

- **1116** What is frequency of sound?

Ans : The number of vibrations made by a body in one second is called its frequency

- **1117** Bat can fly at night because it produces?

Ans : Ultrasonic sound

- **1118** The distance travelled by a wave during the time a particle of the medium makes one vibrationis called?

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Ans : Wave length

· **1119** The distance travelled by a wave in one second?

Ans : Velocity of the wave

· **1120** What are sound waves?

Ans : Longitudinal waves

· **1121** A wave motion in which the particles of the medium vibrate parallel to the direction of propagation of wave is?

Ans : Longitudinal

· **1122** The reflected sound is called?

Ans : Echo

· **1123** The apparatus used for measuring the depth of the sea on the basis of echo is called?

Ans : sonar

· **1124** How is the sound produced when we speak?

Ans : By the vibration of vocal cords

· **1125** Which sound is produced by Galton whistle?

Ans : Ultrasonic

· **1126** When a harmonium is played, how is the sound produced?

Ans : By the vibration of the reeds

· **1127** What is required for the propagation of sound?

Ans : Medium

· **1128** When the frequency of the sound wave is increased, what happens to its wave length?

Ans : Decreased

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· **1129** Which unit is used to measure the frequency of sound?

Ans : Hertz

· **1130** Normal level of sound is?

Ans : 60-120 dB

· **1131** The maximum displacement of the particles of the medium from their equilibrium position?

Ans : Amplitude

· **1132** How is Echo produced?

Ans : By the reflection of sound

· **1133** A wave in which particles of the medium vibrate perpendicular to the direction of propagation of the wave is?

Ans : Transverse wave

· **1134** How is the speed of supersonic plane expressed?

Ans : Mach number

· **1135** Supersonic plane fly with the speed?

Ans : Greater than the speed of sound

· **1136** When will the sound be painful to the ears?

Ans : When the sound is above 120 dB

· **1137** What are the essential characteristics of a wave?

Ans : Wave length; amplitude; frequency and velocity

· **1138** What is known as the study of sound?

Ans : Acoustics

· **1139** Which property of sound is affected by change in air temperature?

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Ans : Wavelength

· **1140** Which property of a wave is independent of the other?

Ans : Amplitude

· **1141** Why an astronaut can't hear his companion at the surface of the moon?

Ans : There is no medium for sound propagation

· **1142** Ultrasonic waves are produced by?

Ans : Piezo electric effect

· **1143** When mechanical waves have a frequency below the audible range it is known as?

Ans : Infrasonics

· **1144** Which wave are used in sonography?

Ans : Ultrasonic

· **1145** When mechanical waves have a frequency above the audible range it is known as?

Ans : Ultrasonics

· **1146** What is the velocity of sound in air?

Ans : 300 m/s

· **1147** In which medium the velocity of sound is maximum?

Ans : Steel

· **1148** What is the velocity of sound in vacuum (in m/s)?

Ans : 0

· **1149** With the rise in temperature, velocity of sound?

Ans : Increases

· **1150** The velocity of sound in any gas depends upon its?

Ans : Density and Elasticity

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· **1151** The energy produced in a nuclear reactor is on account of?

Ans : nuclear fission

· **1152** The age of rocks and fossils can be calculated through?

Ans : carbon dating

· **1153** The first man made element is?

Ans : Technitium

· **1154** Which element is usually used in radiation theraphy?

Ans : Cobalt - 60

· **1155** The first atomic reactor in India is?

Ans : Apsara (Maharashtra - Trombay)

· **1156** India's first fast breeder reactor is at?

Ans : Kalpakkom in Tamilnadu

· **1157** In the interior of the sun, which reaction takes place?

Ans : Nuclear fusion

· **1158** In the core of the sun, hydrogen nuclei fuse together to form which nuclei?

Ans : Helium

· **1159** The radiation which is not affected by the magnetic field or electric field is?

rays Ans : GAMA

· **1160** A metal which can absorb and stop radioactive radiations:?

Ans : Lead

· **1161** When a nucleus emits a beta particle its atomic number:?

Ans : Increases by one

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· **1162** When a nucleus emits a beta particle it always emits?

Ans : Anti neutrino

· **1163** Which is the element with the greatest half life period?

Ans : Urnanium - 238

· **1164** Artificial radioactivity was first discovered by?

Ans : Irene Joliot Curie and Frederic Joliot

· **1165** The radiations which can penetrate most through substances are?

Ans : Gamma rays

· **1166** The radio isotope formed in the atmosphere due to the action of cosmic rays is?

Ans : Carbon 14

· **1167** An isotope which is used in the production of radio pharmaceutical substance is?

Ans : Oxygen 15

· **1168** When an alpha particle is emitted the atomic number of isotope?

Ans : Decreases by two

· **1169** When a nucleus emits a beta particle the mass number of atom?

Ans : Remains the same

· **1170** The half life period of Carbon 14 is:?

Ans : 5760 years

· **1171** Reactions involving changes in the nucleus are called?

Ans : Nuclear energy

· **1172** Pitch blende is the ore of?

Ans : Uranium

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· **1173** Which radiation exhibit highest ionizing power?

Ans : Alpha rays

· **1174** The scientist who showed that radioactive isotope may give off three types of radiation was?

Ans : Rutherford

· **1175** Alpha particle is the nucleus of which atom?

Ans : Helium

· **1176** Beta rays are emitted by the atom from?

Ans : The neutron of its nucleus

· **1177** The first product formed in Uranium 238 disintegration series is?

Ans : Thorium - 234

· **1178** Isotones differ only in the number of?

Ans : Neutrons

· **1179** Beta rays are a stream of?

Ans : Electrons

· **1180** A particle similar to electron carrying positive charge is called?

Ans : Positron

· **1181** What is Nuclear fission?

Ans : The process of splitting the nuclei of heavy atoms into two approximately equal masses

· **1182** What is Nuclear reactor?

Ans : Nuclear reactor is a device used to produce nuclear energy by controlled nuclear fission

· **1183** What is Moderator?

Ans : It is the substance used to slow down the fast neutrons in a nuclear reactor

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· **1184** Write examples of Moderators:?

Ans : Graphite and heavy water

· **1185** What are control rods?

Ans : It is made of substance which can absorb neutrons and control the rate of chain reaction

· **1186** The most suitable particle for splitting the nucleus of an atom is?

Ans : Neutron

· **1187** The substances used to absorb neutrons are?

Ans : Cadmium or boron rods

· **1188** The minimum mass of a radio active substance required to sustain chain reaction is called its?

Ans : Critical mass

· **1189** The process of repeated fission of the remaining fissionable atoms by the neutrons produced by earlier fission is called?

Ans : Chain reaction

· **1190** Photoelectric effect, Theory of Relativity etc. were discovered by?

Ans : Albert Einstein

· **1191** Pressure cooker was invented by?

Ans : Denis Papin

· **1192** Electric bulb was invented by Thomas Alva Edison who is known as?

Ans : "Wizard of Menlo Park"

· **1193** Tachyons are the particles which travel faster than light. They are invented by a Keralite?

Ans : E.C.G. Sudarshan

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· **1194** John Barden, Walter H. Barttain and William Shockley are the scientists who invented?

Ans : Transistor

· **1195** Laser was invented by?

Ans : Theodore H. Maiman

· **1196** "Radar" was invented by?

Ans : Albert H. Taylor and Leo C. Young Dynamite and Gun Powder were invented by the founder of Nobel Prize?

· **1197** Who invented "Clinical Thermometer"?

Ans : Thomas Cliford Albert

· **1198** Father of Atom bomb is?

Ans : Robert Oppenheimer

· **1199** Who discovered nuclear fission?

Ans : Otto Hahn

· **1200** "Father of Hydrogen Bomb"?

Ans : Edward Teller

· **1201** Who first made an electromagnet?

Ans : William Sturger

· **1202** X-ray was invented by?

Ans : Wilhelm K Roentgen

· **1203** Who discovered the existence of the nucleus inside the atom?

Ans : Rutherford - in 1911

· **1204** Who propounded the theory of electrolysis?

Ans : Faraday

· **1205** Who discovered Battery (electric)?

Ans : Alessandro volta

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· **1206** Who discovered superconductivity?

Ans : Cammerling Onnes

· **1207** Who invented Diesel Engine?

Ans : Rudolf Diesel

· **1208** What is called stress?

Ans : The restoring force per unit area set up inside the body is called stress

· **1209** What is the unit of stress?

Ans : C.G.S. system-dyne/cm2; M.K.S. system-newton / m2

· **1210** Which substance has the highest elasticity?

Ans : Steel

· **1211** What is the escape speed from the moon?

Ans : 2.37 km / sec.

· **1212** Which is the direction of rotation of a synchronous satellite of earth?

Ans : West to east

· **1213** A particular star has mass twice that of sun. This star will end up eventually as a?

Ans : Black hole

· **1214** The escape velocity of a projectile from the earth is approximately?

Ans : 11.2 km / sec.

· **1215** As we go from the equator to the poles, value of 'g'?

Ans : increases

· **1216** The weight of a body at the centre of the earth is?

Ans : Zero

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· **1217** Weightlessness experienced while orbiting the earth in space ships is the result of?

Ans : Acceleration

· **1218** To an astronaut in a spaceship the sky appears black due to?

Ans : Absence of atmosphere in its neighbourhood

· **1219** The value of 'g' on equator is?

Ans : Minimum

· **1220** Persons sitting in artificial satellite of the earth have?

Ans : Zero weight

· **1221** The period of geo-stationary artificial satellite of the earth is?

Ans : 24 hrs.

· **1222** The atmosphere is held to the earth by?

Ans : Gravity

· **1223** What is thermoplastic?

Ans : A substance which softens on heating and hardens on - cooling

· **1224** Where does the water in a reservoir exert pressure?

Ans : In all direction

· **1225** Which quantity has direction as well as magnitude?

Ans : Vector quantity

· **1226** What is the branch of science concerning the study of bodies in motion?

Ans : Kinetics

· **1227** The rays that come from sun and other stars are called?

Ans : Cosmic rays

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· **1228** Sun and other stars exist in the state of?

Ans : Plasma

· **1229** It is difficult to cook at high altitudes because of?

Ans : Decrease in boiling point of water

· **1230** If the door of a refrigerator is kept open with the main supply, the temperature of the room?

Ans : Increases

· **1231** Hygrometer is used for measuring?

Ans : Amount of water vapour in air

· **1232** A cold bottle is taken from a refrigerator and weighed. As time progresses we will find?

Ans : the bottle slightly gains weight

· **1233** Which has the longest wavelength?

Ans : Radio waves

· **1234** Which waves are used for telecommunication through artificial satellites?

Ans : Microwaves

· **1235** What increases with the increase of the penetrating power of X-rays?

Ans : Frequency

· **1236** What are X-rays?

Ans : They are electromagnetic radiation

· **1237** A simple pendulum is set up inside a lift. The period of oscillations is maximum when the lift is:?

Ans : Moving downward with acceleration

· **1238** How will the period of oscillation of simple pendulum be affected if it is moved from the surface of earth to a mine?

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Ans : It will increase

· **1239** Two bullets are fired horizontally with different velocities from the same height. Which will reach the ground first?

Ans : Both will reach simultaneously

· **1240** A particle moves in a plane with a constant acceleration in a direction different from the initial velocity. The path of the particle is?

Ans : Parabola energy into mechanical energy

· **1241** Magnetism at the centre of the bar magnet is?

Ans : zero

· **1242** Fuses are connected in ..... to the live wire?

Ans : series

· **1243** When seen in blue light a red rose will appear as?

Ans : black

· **1244** A steam engine convert heat energy into?

Ans : mechanical energy

· **1245** A person climbing a hill bends forward inorder to?

Ans : increase stability

· **1246** Winding a watch is actually the process of storing?

Ans : potential energy

· **1247** Pitch of a sound depends upon its?

Ans : frequency

· **1248** Radiocarbon is produced in the atmosphere as a result of?

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Ans : collision between fast neutrons and nitrogen nuclei present in the atmosphere

- **1249** It is easier to roll a stone up a sloping road than to lift it vertical upwards because?

Ans : work done in rolling a stone is less than in lifting it

- **1250** The absorption of ink by blotting paper involves?

Ans : capillary action phenomenon

- **1251** Siphon will fail to work if?

Ans : the level of the liquid in the two vessels are at the same height

- **1252** Large transformers, when used for some time, become very hot and are cooled by circulating oil. The heating of the transformer is due to?

Ans : both the heating effect of current and hysteresis loss

- **1253** Nuclear sizes are expressed in a unit named?

Ans : Fermi

- **1254** Light year is a unit of?

Ans : distance

- **1255** Mirage is due to?

Ans : unequal heating of different parts of the atmosphere

- **1256** Light from the Sun reaches us in nearly?

Ans : 8 minutes

- **1257** Stars appears to move from east to west because?

Ans : the earth rotates from west to east

- **1258** Pa(Pascal) is the unit for?

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Ans : pressure

· **1259** Planets do not twinkle because?

Ans : they are nearer to earth and hence we receive a greater amount of light and; therefore minor variations in the intensity are not noticeable

· **1260** Metals are good conductors of electricity because?

Ans : they contain free electrons

· **1261** Let a thin capillary tube be replaced with another tube of insufficient length then, we find water?

Ans : will not rise

· **1262** If two bodies of different masses, initially at rest, are acted upon by the same force for the same time, then the both bodies acquire the same?

Ans : momentum

· **1263** Pick out the scalar quantity?

Ans : pressure

· **1264** Rectifiers are used to convert?

Ans : Alternating current to Direct current

· **1265** Sound waves in air are?

Ans : longitudinal

· **1266** Magnetism at the centre of a bar magnet is?

Ans : zero

· **1267** It is more difficult to walk on a sandy road than on a concrete road because?

Ans : the friction between sand and feet is less than that between concrete and feet

· **1268** Find the maximum velocity for the overturn of a car moving on a circular track of radius 100 m. The co-efficient of friction be-

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tween the road and tyre is 0.2?

Ans : 14 m/s

· **1269** Lux is the SI unit of?

Ans : intensity of illumination

· **1270** On a rainy day, small oil films on water show brilliant colours. This is due to?

Ans : interference

· **1271** Point A is at a lower electrical potential than point B. An electron between them on the line joining them will?

Ans : move towards B

· **1272** Materials for rain-proof coats and tents owe their water-proof properties to?

Ans : surface tension

· **1273** RADAR is used for?

Ans : detecting and locating the position of objects such as aeroplanes

· **1274** Sound of frequency below 20 Hz is called?

Ans : infrasonic

· **1275** On a clean glass plate a drop of water spreads to form a thin layer whereas a drop of mercury remains almost spherical because?

Ans : cohesion of mercury is greater than its adhesion with glass

· **1276** Suitable impurities are added to a semiconductor depending on its use. This is done in order to?

Ans : increase its electrical conductivity

· **1277** Stars twinkle because?

Ans : the refractive index of the different layers of the earth's atmosphere changes continuously, conse-

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quently the position of the image of a start changes with time

- **1278** It takes much longer to cook food in the hills than in the plains, because?

Ans : in the hills the atmospheric pressure is lower than that in the plains and therefore water boils at a temperature lower than 100oC causing an increase in cooking time

- **1279** Moment of inertia is?

Ans : tensor

- **1280** Inside an aeroplane, flying at a high altitude,?

Ans : normal atmospheric pressure is maintained by the use of air pumps

- **1281** Sound travels with a different speed in media. In what order does the velocity of sound increase in these media?

Ans : Air; water and iron

- **1282** One thousand microns is equal to?

Ans : 10-3m

- **1283** Sound travels at the fastest speed in?

Ans : steel

- **1284** oil raise up the wick in a lamp. The principle involves?

Ans : capillary action phenomenon

- **1285** Superconductors are substances which?

Ans : offer no resistance to the flow of electricity

- **1286** Light travels at the fastest speed in?

Ans : vacuum

- **1287** Railway tracks are banked on curves?

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Ans : necessary centripetal force may be obtained from the horizontal component of the weight of the train

· **1288** On a cold day when a room temperature is 15oC, the metallic cap of a pen becomes much colder than its plastic body, though both are at the same temperature of 15oC, because?

Ans : metals are good conductor of heat

· **1289** Sound produced at a point is heard by a person after 5 second, while the same sound is heard by another person after 6 seconds. If the speed of sound is 300 m/s, what could be the maximum and minimum distances between the two persons?

Ans : 3.3 km; 0.30 km

· **1290** Intensity of sound at a point is ____ its distance from the source.?

Ans : inversely proportional to square of

· **1291** Of the four locations mentioned below the highest inside temperature will be attained in the pressure cooker operated with the pressure valve open?

Ans : at a place in a valley below sea level

· **1292** Radio telescopes are better than optical telescopes because?

Ans : All of the above

· **1293** Light Emitting Diodes (LED) is used in fancy electronic devices such as toys emit?

Ans : visible light

· **1294** Mercury is commonly used as a thermometric fluid rather than water because?

Ans : mercury has greater visibility than water

· **1295** Optical fibre works on the?

Ans : total internal reflection

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· **1296** Light from the star, Alpha Centauri, which is nearest to the earth after the sun, reaches the earth in?

Ans : 4.2 years

· **1297** Supersonic plane fly with the speed?

Ans : greater than the speed of sound

· **1298** Mach number is used in connection with the speed of?

Ans : aircraft

· **1299** On a stationary sail boat, air is blown from a fan attached to the boat. The boat?

Ans : does not move

· **1300** Rainbow is due to?

Ans : refraction and reflection of sunlight by water droplets

· **1301** Stars which appear single to the naked eye but are double when seen through a telescope are?

Ans : binaries

· **1302** ML2T-2 is the dimensional formula for?

Ans : couple acting on a body

· **1303** Solar eclipse will take place when?

Ans : the moon is between the sun and the earth

· **1304** Isotopes of an element contain?

Ans : the same number of protons but different number of neutrons

· **1305** One watt-hour is equivalent to?

Ans : 3.6 x 103 J

· **1306** Sir C.V. Raman was awarded Nobel Prize for his work connected with which phenomenon of radiation?

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Ans : Scattering

· **1307** Radiocarbon dating technique is used to estimate the age of?

Ans : fossils

· **1308** Large astronomical telescopes always use as objective?

Ans : combinations of lenses

· **1309** One should not connect a number of electrical appliances to the same power socket because?

Ans : this can damage the domestic wiring due to overloading

· **1310** Rainbow is produced when sunlight fall on drops of rain. Which of the following physical phenomena are responsible for this : Diffusion, Refraction, Internal reflection?

Ans : II and III

· **1311** Natural radioactivity was discovered by?

Ans : Henri Becquerel

· **1312** Planets are?

Ans : non-luminous heavenly bodies

· **1313** One nanometer is equal to?

Ans : 10-9m

· **1314** Mica is used in electrical appliances such as electric iron because mica is?

Ans : a good conductor of heat but a bad conductor of electricity

· **1315** It is easier to roll a barrel full of coal tar than to pull it because?

Ans : the rolling friction is much less than the sliding friction

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· **1316** Minimum number of unequal vectors which can give zero resultant are?

Ans : three

· **1317** Intensity of sound has?

Ans : an object existence

· **1318** Rain is falling vertically downwards. To a man running east-wards, the rain will appear to be coming from?

Ans : east

· **1319** An aeroplane is flying horizontally with a velocity of 600 km/h and at a height of 1960 m. When it is vertically at a point A on the ground a bomb is released from it. The bomb strikes the ground at point B. The distance AB is?

Ans : 3.33 km

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