

A Collection of 637
General Science MCQ
[Physics Chemistry Biology]

The is a collection of General Science 636 MCQ which contains question answer of Physics, Chemistry, Biology. All information are collected from various source on Internet.

I hope this information is helpful for you .

Thank You !

Published By

General Science MCQ

1. Which of the following has the longest small intestine?
 - a. Carnivore
 - b. Omnivore
 - c. **Herbivore**
 - d. Autotroph

2. The process of obtaining food by Amoeba is known as:
 - a. dialysis
 - b. cytokinesis
 - c. **phagocytosis**
 - d. amoebiasis

3. The organism having parasitic mode of nutrition is:
 - a. Penicillium
 - b. **Plasmodium**
 - c. Paramecium
 - d. Parrot

4. One of the following organisms has a saprophytic mode of nutrition. This organism is:
 - a. **mushroom**
 - b. malarial parasite
 - c. leech
 - d. lice

5. The length of small intestine in a human adult is about
 - a. 4.5 m
 - b. 1.5 m
 - c. 3.5 m
 - d. **6.5 m**

6. The process of digestion of food in humans begins in:
 - a. Stomach
 - b. food pipe
 - c. **mouth**
 - d. small intestine

7. The process of digestion in humans is completed in:
 - a. oesophagus
 - b. **small intestine**
 - c. stomach
 - d. large intestine

8. In human digestive system, bile is secreted by:
 - a. pancreas
 - b. **liver**
 - c. kidneys
 - d. stomach

9. Two of the following organisms have a holozoic mode of nutrition. These organisms are:

- a. Paramecium and Plasmodium
 - b. Plasmodium and Parakeet
 - c. **Parakeet and Paramecium**
 - d. Paramecium and Parasite
10. The autotrophic mode of nutrition requires:
- a. carbon dioxide and water
 - b. chlorophyll
 - c. sunlight
 - d. **all of the above**
11. The correct order of steps occurring in nutrition in animals is:
- a. Ingestion ---- > Absorption --- > Digestion --- > Assimilation
 - b. Ingestion ---- > Digestion --- > Assimilation ---- > Absorption
 - c. **Ingestion ---- > Digestion --- > Absorption--- > Assimilation**
 - d. Ingestion ---- > Assimilation --- > Digestion ---- > Absorption
12. In human digestive system, the enzymes pepsin and trypsin are secreted respectively by:
- a. pancreas and liver
 - b. stomach and salivary glands
 - c. pancreas and gall bladder
 - d. **stomach and pancreas**
13. When carrying out the starch test on a leaf, why is it important to boil the leaf in alcohol?
- a. to dissolve the waxy cuticle
 - b. to make the cells more permeable to iodine solution
 - c. **to remove the chlorophyll**
 - d. to stop chemical reactions in the cells.
14. Pancreatic juice contains enzymes which digest:
- a. proteins and carbohydrates only
 - b. proteins and fats only
 - c. fats and carbohydrates only
 - d. **proteins, fats and carbohydrates**
15. Which of the following is the correct statement regarding bile?
- a. secreted by bile duct and stored in liver
 - b. secreted by gall bladder and stored in liver
 - c. secreted by liver and stored in bile duct
 - d. **secreted by liver and stored in gall bladder**
16. Where are proteins first digested in the alimentary canal?
- a. small intestine
 - b. oesophagus
 - c. mouth
 - d. **stomach**
17. The inner lining of stomach is protected by one of the following from the harmful effect of hydrochloric acid. This is:
- a. pepsin
 - b. **mucus**
 - c. saliva

- d. bile
18. Which part of alimentary canal receives bile from the liver?
- oesophagus
 - small intestine**
 - stomach
 - large intestine
19. Which of the following component of our food is digested by an enzyme which is present in saliva as well as in pancreatic juice?
- proteins
 - fat**
 - minerals
 - carbohydrate**
20. If the saliva is lacking in salivary amylase, then which of the following processes taking place in the buccal cavity will be affected?
- proteins breaking down into amino acids
 - starch breaking down into sugars**
 - fats breaking down into fatty acids and glycerol
 - intestinal layer breaking down leading to ulcers
21. Robert Webster is known for his work associated with which one of the following?
- Environmental protection
 - Influenza virus**
 - HIV/AIDS
 - Alzheimer
22. In which organ of the human body are the lymphocyte cells formed?
- Liver
 - Long Bones**
 - Pancreas
 - Spleen
23. Which type of pollution is caused by two-wheelers?
- Air Pollution**
 - Soil pollution
 - Air and Soil pollution
 - Water Pollution
24. Most Hazardous metal pollution of automobile exhaust is :
- Cd
 - Hg
 - Copper
 - Lead**
25. The excess discharge of fertilizers into water bodies results in:
- Silt
 - Death of Hydrophytes
 - Eutrophication**
 - Growth of fish

26. If BOD of a river water is found very high, it means water:
- Is clean
 - Is highly polluted**
 - Is having algae
 - Contains dissolved minerals
27. Minamata disease affects the
- Circulatory System
 - Skeletal System
 - Nervous System**
 - Respiratory System
28. Chernobyl disaster was caused by a :
- Nuclear weapon accident
 - Nuclear waste leak
 - Nuclear reactor accident**
 - Nuclear test
29. Chemical which causes bone cancer and degeneration of tissue is :
- I-131
 - Ca-40
 - I-127
 - Str-90**
30. The antiknock agent added to unleaded petrol is:
- Tetraethyl lead
 - Tetramethyl lead
 - Dibromoethane
 - Methyl tertiary butyl ether**
31. The range of normal human hearing lies between:
- 500 Hz to 10000 Hz
 - 2000 Hz to 200000Hz
 - 5000 Hz to 6000 Hz
 - 50 Hz to 15000 Hz**
32. 3-4 benzopyrene causes:
- Leukemia
 - Cytosilicosis
 - Lung cancer**
 - Tuberculosis
33. Climate of world is threatened by:
- Increasing concentration of atmospheric oxygen
 - Decreasing amount of atmospheric oxygen
 - Increasing amount of atmospheric Carbon-dioxide**
 - Decreasing amount of atmospheric nitrogen concentration
34. In coming years skin related disorders will become more common due to :
- Excessive use of detergents

- b. Water pollution
- c. Air pollution
- d. **Depletion of ozone layer**

35. Natural silk is a :

- a. **Polypeptide**
- b. Polysaccharide
- c. Polyvinyl chloride
- d. Polyacrylonitrile

36. Which of the following can be remelted time and again without producing any change?

- a. PVC
- b. Bakelite
- c. Melmac
- d. Urea-formaldehyde resin

37. The drugs used to get relief from pain are called:

- a. Antipyretic
- b. **Analgesics**
- c. Antibiotics
- d. Antiseptics

38. Most commonly used tranquillizers are derivatives of:

- a. Acetic Acid
- b. Salicylic Acid
- c. **Barbituric Acid**
- d. Sulphanilamide

39. SLV-3 and ASLV rockets used:

- a. Hybrid propellants
- b. **Composite Solid propellants**
- c. Double base propellants
- d. Billiquid propellants

40. A transformer is used for:

- a. Increasing DC voltage
- b. Decreasing DC voltage
- c. Converting DC into AC
- d. **Increasing or decreasing AC voltage**

41. Convex lens are used for correction of:

- a. Short-sightedness
- b. **Long-sightedness**
- c. Cataract
- d. None of these

42. One litre of water is equivalent to:

- a. 1.5 kg
- b. 1.25 kg
- c. 1.00 kg
- d. **0.9 kg**

43. Metals are good conductor of electricity because:
- The atoms are highly packed
 - They have high melting point
 - They have free electrons**
 - All of the above
44. In the process of galvanization an iron sheet is coated with:
- Zinc**
 - Aluminium
 - Tin
 - Magnesium
45. H1N1 Flu is caused by
- Virus**
 - Bacteria
 - Cold
 - Fungus
46. Who discovered DNA?
- J. Watsen
 - F. Crick
 - J. Watsen and F. Crick**
 - R. Franklin
47. Which is the source of fuel for a Nuclear reactor?
- Iron
 - Uranium**
 - Carbon
 - Calcium
48. 'Treadmill test' (TMT) is conducted to treat
- Heart**
 - Lungs
 - Kidney
 - Legs
49. Ozone depletion is mainly caused by
- Carbon-dioxide
 - CFC**
 - CO
 - Nitrogen
50. The study of fossils is known as :
- Patrology
 - Seismology
 - Palaeontology**
 - Bathymetry
51. A plant with green leaves placed in red light will appear
- Blue

- b. Brown
- c. **Black**
- d. Red

52. Electromagnetic radiation is emitted by

- a. X-Rays
- b. Ultrasonic waves
- c. **Electrons**
- d. Protons

53. The common refrigerant used in domestic refrigerator is:

- a. Neon
- b. Spirit
- c. **Freon/Ammonia**
- d. None of these

54. A fuse wire is characterized by:

- a. High resistance and high melting point
- b. Low resistance and high melting point
- c. **High resistance and low melting point**
- d. Low resistance and low melting point

55. Who said “A body will remain at rest unless an external force acts on the body”?

- a. **Newton**
- b. Einstein
- c. Archimedes
- d. Galileo

56. Which metal is commonly used as an electromagnet?

- a. Copper
- b. Nickel
- c. Gold
- d. **Iron**

57. When ice melts in a beaker of water, the level of water in beaker will:

- a. Increase
- b. Decrease
- c. **Remains the same**
- d. First increase and then decrease.

58. Which of the following does not admit any division?

- a. **Atom**
- b. Molecules
- c. Compound
- d. All

59. The dynamo converts;

- a. **Mechanical energy into electrical energy**
- b. Mechanical energy into heat energy
- c. Electrical energy into mechanical energy
- d. None of these

60. The M.K.S. unit of electric charge is :

- a. Volt
- b. Ampere
- c. Watt
- d. **Coulomb**

61. The oil in the wick of an oil lamp rises up due to:

- a. Pressure difference
- b. **Capillary action**
- c. Low velocity of oil
- d. Gravitational force

62. The function of the choke is to:

- a. **Give relatively large impedance of alternating current**
- b. Give relatively large impedance of direct current
- c. Regulate the voltage
- d. Increase the voltage

63. If the length of a heater coil is reduced by 10% of its original length, then power consumed by heater will:

- a. **Increase over 10%**
- b. Decrease by 10%
- c. Increase by 0.5%
- d. Decrease by 0.5%

64. A red light is used in traffic signal because

- a. **It has the longest wavelength and can be easily noticed from long distance**
- b. It is beautiful
- c. It is visible to the people even with bad eyesight
- d. None of these

65. The most convenient colour combination that can be used for vehicles running day and night is :

- a. Orange and blue
- b. White and black
- c. **Red and green**
- d. Yellow and blue

66. Metals are good conductor of electricity because:

- a. **They contain free electrons**
- b. The atoms are highly packed
- c. They have high melting point
- d. All of above

67. When iron and wood are exposed to the sunlight, the iron rod becomes hot quickly because:

- a. **Greater thermal conducting of iron**
- b. Lower thermal conducting of iron
- c. More density of iron
- d. Less density of iron

68. Water cannot be used to extinguish fire caused by an electric current because:

- a. **It may cause another short circuit**
- b. It may cause hydrolysis
- c. It may cause electrocution

- d. It will spoil the wiring
69. In diesel engines, ignition takes place by:
- Compression**
 - Electric Spark
 - Dynamo
 - Battery
70. A sprayer works on the principle of
- Newton
 - Archimedes
 - Boyle
 - Pascal**
71. Who among the following received Nobel prize for unraveling the helical structure of Protein?
- Linus pauling**
 - Maurice Wilkins
 - Sanger
 - Watson and Crick
72. Red-rot and Ergot disease are associated with the Production of:
- Bajra and wheat
 - Groundnut and sugarcane
 - wheat and groundnut
 - Sugarcane and Bajra**
73. Which one of the following disease is caused by bacteria?
- Hepatitis B
 - Poliomyelitis
 - Scabies
 - Tuberculosis**
74. Which one of the following is vector for KALA-AZAR disease?
- Housefly
 - Sandfly**
 - Aedes mosquito
 - Anopheles Mosquitos
75. In terms of organic evolution, which one of the following is more advanced than the other three?
- Bat**
 - Pigeon
 - Ostrich
 - Vulture
76. Night blindness can be corrected by the intake of?
- Vitamin A**
 - Vitamin B Complex
 - Vitamin C
 - Vitamin D
77. Which one of the enzymes is found in human saliva?

- a. Trypsin
- b. Pepsin
- c. **Ptyalin**
- d. Rennin

78. Which one of the following element is essential for the transmission of Nerve impulses in nerve fibers of Human body?

- a. Calcium
- b. Iron
- c. **Sodium**
- d. Zinc

79. In the human body, the red blood cells are produced in?

- a. Liver
- b. Voluntary Muscles
- c. Pancreas
- d. **Bone marrow**

80. The purpose of Genetically modifying brinjal and cotton as Bt-Brinjal, Bt-Cotton was to make them?

- a. Drought resistant
- b. High yielding
- c. **Pest resistant**
- d. Short-duration crops

81. The Scientists recently estimated the age of the moon around ____ billion years.

- a. **4.36**
- b. 3.36
- c. 5.34
- d. 7.54

82. Which of the following are infected by foot and mouth disease?

- a. Cats
- b. **Cattle**
- c. Dogs
- d. Poultry

83. Which one of the following kinds of organism causes malaria?

- a. Bacterium
- b. Fungus
- c. **Protozoan**
- d. Virus

84. Which among the following is poorest source of Fat?

- a. Curd
- b. Egg
- c. **Fish**
- d. Milk

85. The release of which one of the following into Ponds and wells helps in controlling mosquitoes?

- a. Crab
- b. **Gambusia Fisha**
- c. Dogfish
- d. Snail

86. What kind of energy is stored in a dry cell ?

- a. Mechanical
- b. **Electrical Chemical**
- c. Heat

86. Excessive consumption of alcoholic drinks causes damage to the

- a. **Liver**
- b. Kidneys
- c. Heart
- d. Lungs

86. Steel is more elastic than rubber because

- a. its density is high
- b. It is a metal
- c. **Ratio of stress to strain is more**
- d. Ratio of stress to strain is less

87. A car and a loaded truck are moving with the same speed along a road. As compared to the truck, the car shall possess

- a. More kinetic energy
- b. More potential energy
- c. **Less kinetic energy**
- d. More mechanical energy

88. Solar eclipse takes place when

- a. **The moon comes between the sun and the earth**
- b. The earth comes between the sun and the moon
- c. The sun comes between the moon and the earth
- d. None of the above

89. What makes the blood look red?

- a. Red corpuscles
- b. **Hemoglobin**
- c. Plasma
- d. Certain secretions

90. In railway tracks, a small gap is left between the rails

- a. **To allow for the expansion during heat**
- b. To save the cost of metal
- c. To permit the shrinkage of metal
- d. None of the above

91. Food can be cooked quicker in a pressure cooker because

- a. No heat is lost
- b. **High pressure steam has high temperature**
- c. Steam remains within the cooker

- d. it is made of metal
92. Universal receivers can receive blood from
- Group AB
 - Group O only
 - Groups O, A, B, AB**
 - Groups A, AB
93. During the floods, precaution should be specially taken against
- Cholera
 - Small pox
 - Typhoid**
 - Malaria
94. An echo is produced on account of the ____ of sound wave.
- Diffraction
 - Refraction
 - Reflection**
 - Dispersion
95. Sound cannot travel through
- Air
 - Sand
 - Vacuum**
 - Water
96. After cobra bite, venom affects the
- Brain**
 - Blood circulation
 - Lungs
 - None of these
97. Friction can be reduced by changing over from
- Sliding to rolling
 - Rolling to sliding**
 - Potential energy to kinetic energy
 - Dynamic to static
98. Science is derived from Latin word “scientia” which means:
- Reasoning
 - Logic
 - Knowledge**
 - Life
99. ----- are the vertices of the triangle:
- Hypothesis, theory, law**
 - Hypothesis, experiment, procedure
 - Theory, principle, law
 - Law, experiment, observation.
100. Pythagoras regarded sun, earth, & moon as -----.

- a) Traingles
- b) Squares
- c) **Spheres**
- d) Oval

101. Calculus was invented by

- a) Fathom
- b) Pythagoras
- c) **Isaac Newton**
- d) Sholes

102. Dispersion of white light into seven different colors was showed by -----

- a) Galileo Galilei
- b) **Issac newton**
- c) Einstein
- d) C.V.Raman

103. Who for the first time point out that the path of a projectile would a parabola :

- a) Issac Newton
- b) Thomas Edison
- c) Homi Bhabha
- d) **Galileo**

104. The branch of science which deals with the nature of sound, its production, transmission and effects is called

- a) **Acoustics**
- b) Aeronautics
- c) Mechanics
- d) Physics

105. The science of motion and propulsion of rockets, missiles and projectiles is called

- a) Acoustics
- b) **Ballistics**
- c) Thermodynamics
- d) Histology

106. Study of energy production in living bodies is called

- a) Biology
- b) **Biomechanics**
- c) Bioenergetics
- d) Aerodynamics

107. The study of Deterioration of environment by activity of living things is called

- a) **Biofouling**
- b) Bioremediation
- c) Biomechanics
- d) Physics

108. The science of getting exact copies of desired living organisms, organs, genes or molecules is known as

- a) Copying
- b) **Reproduction**

- c) **Cloning**
- d) Biocopying

109. The study of creation of the Universe is called

- a) Astronomy
- b) **Cosmogony**
- c) Geology
- d) Geophysics

110. The study of genetics of cell is called

- a) **Cytogenetic**
- b) Genetic engineering
- c) Cytology
- d) Cellular biology

111. showed that the space between galaxies is increasing and the universe is expanding.

- a) Issac newton
- b) A. Einstein
- c) Plato
- d) **Edwin Hubble**

112. According to big Bang theory, Universe came into existence about years ago.

- a) **15-20 billion**
- b) 5-6 billion
- c) 15-20 million
- d) 50-60 billion

113. Our galaxy is ----- in shape.

- a) Spherical
- b) Elliptical
- c) **Spiral**
- d) irregular

114. ----- are the vertices of the triangle:

- a) **Hypothesis, theory, law**
- b) Hypothesis, experiment, procedure
- c) Theory, principle, law
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- b) Elliptical
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- d) irregular

129. The study of rearing fine and intelligent human beings through genetics is called

- a) **Eugenics**
- b) Biotechnology
- c) Cloning
- d) Genealogy

130. Branch of mathematics dealing with measurement of surface of earth is called

- a) **Geology**
- b) Topology
- c) Geo mathematics
- d) Geodesy

131. Use of Sun bath for the treatment of diseases is called

- a) Sun therapy
- b) Solar therapy
- c) **Heliotherapy**
- d) Radiation therapy

132. Scientific cultivation of fruits, vegetables, flowers and shrubs is called

- a) Agronomy
- b) Botany
- c) **Horticulture**
- d) Entomology

133. Scientific study of birds is called

- a) **Ornithology**
- b) Avian biology
- c) Poultry science
- d) Zoology

134. Pulsar is a neutron star which produces regular pulses of radiation.

- a) Gamma
- b) **Electromagnetic**
- c) Microwave
- d) Ultraviolet

135. Globular clusters of the stars contain ----- stars.

- a) Few hundred
- b) **Several thousand**
- c) more than one million
- d) ten millions

136. Largest unit of the universe is believed to be

- a) Galaxy
- b) Stars
- c) **Super clusters**
- d) Solar system

137. Lunar eclipses are of ----- types.

- a) 2
- b) **3**
- c) 4
- d) None of the above

138. Solar eclipse can occur only at -----.

- a) Full moon
- b) **New moon**
- c) Summer season
- d) None of the above

139. Rough endoplasmic reticulum is concerned with

- a) Energy production
- b) **Protein synthesis**
- c) Removal of wastes
- d) None of the above

140. Smooth endoplasmic reticulum is concerned with

- a) Protein synthesis
- b) Energy production
- c) **Lipids synthesis**
- d) None of the above

141. ----- are the power houses of the cell.

- a) Golgi apparatus
- b) Lysosomes
- c) Nucleus
- d) **Mitochondria**

142. Fundamental unit of heredity is -----

- a) DNA
- b) Chromosome

- c) Gene
- d) Cell

143. The name gene was introduced by ----- in 1909.

- a) Robert hooke
- b) Watson & Crick
- c) Waldyer
- d) **Johannsen**

144 Biological Oxygen Demand (BOD) is used as a standard measure of_____.

- a. Oxygen level in forest system
- b. Oxygen level in animals
- c. **Oxygen level in water system**
- d. Oxygen level in atmosphere

145. Which of the following is not a natural fiber:

- a. Jute
- b. Coir
- c. Silk
- d. **Rayon**

146. Which of the following is a water-borne disease?

- a. AIDS
- b. Dengue
- c. Influenza
- d. **Cholera**

147. Cooking oil can be converted into vegetable ghee by the process of :

- a. Oxidation
- b. Crystallization
- c. **Hydrogenation**
- d. Vacuum Freezing

148. The vitamin that is most readily manufactured in our bodies is:

- a. Vitamin A
- b. Vitamin B
- c. Vitamin C
- d. **Vitamin D**

149. Which of the following metals occurs in free state?

- a. **Copper**
- b. Gold
- c. Zinc
- d. Lead

150. Which of the following is a chemical change?

- a. **Rusting of iron**
- b. Tempering of iron
- c. Melting of iron
- d. Bending of Iron

151. Antibiotics are the drugs used for the cure of:

- a. **Bacterial disease**
- b. AIDS
- c. Cancer
- d. Nervous Disorders

152. The element common to all acids is:

- a. Oxygen
- b. Sulphur
- c. Nitrogen
- d. **Hydrogen**

153. Tetra-ethyl lead is used as:

- a. Mosquito repellent
- b. Pain killer
- c. Fire Extinguisher
- d. **Petrol additive**

154. Entomology deals with

- a. Plants
- b. Birds
- c. Flowers
- d. **Insects**

155. Numismatics is the study of:

- a. Stamps
- b. **Coins**
- c. Numbers
- d. Stars

156. The blue color of the sky is due to:

- a. Diffraction of light
- b. **Dispersion of light**
- c. Reflection of light
- d. Refraction of light

157. Spinach leaves are rich source of

- a. Vitamin A
- b. Calcium
- c. **Iron**
- d. Carbohydrate

158. Deficiency of Vitamin D causes:
- Rickets**
 - Beri-Beri
 - Scurvy
 - Night Blindness
159. Deficiency of Vitamin C Causes;
- Rickets
 - Beri Beri
 - Scurvy**
 - Night Blindness
160. The study of Earthquakes is known as:
- Ecology
 - Titanology
 - Seismology**
 - None of these
161. The microscope is used to study:
- Distant objects
 - Near Objects
 - Small Objects
 - Small and near objects**
162. What is the S.I. unit of temperature?
- Joule
 - Celsius
 - Kelvin**
 - Lux
163. Density of milk is measured by:
- Lactometer**
 - Hydrometer
 - Barometer
 - Hygrometer
164. Decibel is the unit of
- Density
 - Light
 - Sound**
 - Elasticity
165. Fathometer is used to measure:
- Earthquakes
 - Rainfall
 - Ocean Depth**
 - Sound Intensity
166. The apparatus used in submarines to give a clear view of the object, on the surface of the ocean or ground is known as:

- a. **Periscope**
b. Sextant
c. Stereoscope
d. Telescope
167. Which of the following metals is used in aircraft?
a. Chromium
b. Titanium
c. **Palladium**
d. None of these
168. Effect of light on photocells produces:
a. Energy
b. **Current**
c. Photosynthesis
d. None of these
169. Unit of energy is same as that of
a. **Work**
b. Power
c. Force
d. Acceleration
170. The best conductor of electricity is:
a. Iron
b. Aluminum
c. Copper
d. **Silver**
171. Which among the following is in liquid state at normal temperature:
a. Sodium
b. Phosphorus
c. **Mercury**
d. None of these
172. Which matter is used in storage batteries?
a. Copper
b. **Lead**
c. Aluminum
d. Zinc
173. A mixture of water and alcohol can be separated by:
a. Filtration
b. Evaporation
c. Condensation
d. **Distillation**
174. The type of glass used in making of prisms and lenses is:
a. Soft Glass
b. Pyrex Glass

- c. Jena glass
- d. **Flint Glass**

175. In making the saffron spice, which one of the following parts of the plant is used?

- a. Leaf
- b. Petal
- c. Sepal
- d. **Stigma**

176. In the context of alternative sources of energy, ethanol as a viable bio-fuel can be obtained from

- a. Potato
- b. Rice
- c. **Sugarcane**
- d. Wheat

177. Which gas does the coca-cola bottle contains:

- a. Nitrous oxide
- b. Carbonic Acid
- c. **Carbon Dioxide**
- d. Sulphuric Acid

178. Nuclear fusion is caused by the impact of:

- a. Proton
- b. Electron
- c. **Neutron**
- d. Both a and b

179. Which of the following is commonly called a polyamide?

- a. Rayon
- b. **Nylon**
- c. Propylene
- d. Orion

180. The major ingredient of leather is:

- a. Starch
- b. **Collagen**
- c. Polymer
- d. Nucleic Acid

181. Photoelectric effect was discovered by:

- a. **Einstein**
- b. Hertz
- c. Bohr
- d. Plank

182. If a metal can be drawn into wires relatively easily it is called

- a. Mellable
- b. **Ductile**
- c. Extractive
- d. Tactile

183. Which acid is produced when milk gets sour?

- a. Tartaric Acid
- b. Butyric Acid
- c. **Lactic Acid**
- d. Acetic Acid

184. Which of the following crops is of Kharif season?

- a. **Soyabean**
- b. Linseed
- c. Lentil
- d. Mustard

185. Permanent hardness of water may be removed by the addition of:

- a. Alum
- b. **Sodium Carbonate**
- c. Lime
- d. Potassium Permanganate

186. The ration of pure gold in 18 carat gold is:

- a. 60%
- b. **75%**
- c. 80%
- d. 85%

187. The hardest substance available in earth is:

- a. Platinum
- b. Titanium
- c. **Diamond**
- d. Gold

188. Bronze is an alloy of:

- a. Copper and Zinc
- b. **Copper and Tin**
- c. Iron and Copper
- d. Zinc and Tin

189. Purest form of iron is:

- a. Steel
- b. Pig Iron
- c. **Cast Iron**
- d. Wrought Iron

190. Enzyme is a:

- a. Carbohydrate
- b. **Protein**
- c. Fatty Acid
- d. Nucleic Acid

191. Bacteria belong to which of the following kingdom?

- a. Protista
- b. Animalae
- c. **Plantae**

d. Monera

192. Titan is the largest natural satellite of planet:
- Mercury
 - Venus
 - Saturn**
 - Neptune
193. Which element is found on the surface of the moon?
- Tungsten
 - Titanium
 - Tantalum**
 - Neptune
194. ECG is used for the diagnosis of ailment of the
- Brain
 - Heart**
 - Kidneys
 - Lungs
195. Virus causes:
- Cholera
 - AIDS**
 - Typhoid
 - Scurvy
196. Which of the following is acidic in nature:
- Sugar
 - Lime
 - Baking powder
 - Vinegar**
197. Which of the following is present in hard water:
- Calcium**
 - Aluminum
 - Sodium
 - Chlorine
198. Universal blood donor is:
- A Group
 - B Group
 - AB Group
 - O Group**
199. The instrument used to measure the pressure of gases is the:
- Barometer
 - Monometer**
 - Hygrometer
 - Altimeter
200. In a dry cell, which of the following is used as electrolytes?
- Ammonium chloride and zinc chloride**

- b. Sodium Chloride and Calcium chloride
c. Magnesium chloride and zinc Chloride
d. Ammonium chloride and Calcium chloride
201. The most abundant organic molecule on the surface of the Earth is:
a. **Cellulose**
b. Chitin
c. DNA
d. Hemoglobin
202. Diamond is the _____ form of carbon.
a. Chemical
b. **Crystalline**
c. Amorphous
d. Alkaline
203. Polythene is industrially prepared by the polymerization of:
a. Methane
b. Styrene
c. Acetylene
d. **Ethylene**
204. The hormone which stimulates milk production in mammal is known as:
a. Glucagon
b. **Prolactin**
c. Progesterone
d. Estrogen
205. Acquired Immuno-Deficiency Syndrome (AIDS) is caused by:
a. Fungal Infection
b. Bacterial Infection
c. Protozoa
d. **Virus**
206. Which of the following processes does not increase the amount of carbon dioxide in air?
a. Breathing
b. **Photosynthesis**
c. Burning of petrol
d. Aerobic decay of vegetation
207. Which of the following is called the 'powerhouse' of the cell?
a. Nucleus
b. Lysosome
c. Chromosome
d. **Mitochondrion**
208. Heat stored in water vapor is:
a. Specific heat
b. Latent heat
c. Absolute heat
d. Relative heat

209. One Fathom is equal to :
- 6 feet**
 - 6 meter
 - 6 centimeter
 - 6 yards
210. Which of the following is a water soluble vitamin?
- Vitamin A
 - Vitamin B
 - Vitamin C**
 - Vitamin D
211. Silk is produced by:
- Egg of silkworm
 - Pupa of silkworm
 - Larva of silkworm**
 - None of these
212. The gas usually responsible for the explosions in coal mines is:
- Hydrogen
 - Carbon monoxide
 - Air
 - Methane**
213. Liquefied Petroleum Gas contains:
- Butane and propane**
 - Ethane and nitrogen
 - Ethane and hexane
 - None of these
214. Which of the following is incorrect:
- Mercury: Hg
 - Silver :Ag
 - Sodium: Na
 - Potassium: Ka**
215. The process of strongly heating an ore in the presence of air is called:
- Smelting
 - Sublimation
 - Calcination**
 - Segmentation
216. During rusting, iron:
- Loses weight**
 - Gains weight
 - Does not lose weight
 - Volatilizes
217. What is the approximate velocity of sound in air?

- a. 3 m/s
b. 30 m/s
c. **300 m/s**
d. 3000 m/s
218. Light year related to:
a. Speed
b. Energy
c. **Distance**
d. Intensity
219. Meteorology is the study of:
a. **Weather**
b. Meteors
c. Metals
d. Earthquakes
220. Cotton fibers are made of:
a. **Cellulose**
b. Starch
c. Proteins
d. Fats
221. Which alloy is used to make magnets:
a. **Alnico**
b. Magnesium
c. Steel
d. Duralumin
222. The gas usually filled in electric bulb is:
a. Hydrogen
b. Oxygen
c. **Nitrogen**
d. Carbon Dioxide
223. Stainless steel is an alloy of:
a. Iron, Carbon & Nickel
b. Iron and Zinc
c. Iron, Chromium and Zinc
d. **Iron, Chromium and Carbon**
224. From which mineral is radium extracted:
a. Magnetite
b. Hematite
c. **Pitchblende**
d. Rutile
225. What is laughing gas?
a. Carbon monoxide
b. Nitrogen Monoxide
c. Nitrogen Dioxide

d. Nitrous Oxide

226. Chemically the term Dry Ice is:

- a. Solid Water
- b. Solid Nitrogen
- c. Solid Carbon dioxide**
- d. Solid Sodium

227. The chemical that is found in the largest quantity in the sun?

- a. Hydrogen**
- b. Carbon
- c. Sodium
- d. Uranium

228. The year in which the Kyoto protocol was adopted?

- a. 2000
- b. 2002
- c. 2005**
- d. 2007

229. The energy of food is measured in:

- a. Kelvin
- b. Calorie**
- c. Bushel
- d. None of these

230. Decibel is the unit of:

- a. Sound**
- b. Light
- c. Heat
- d. Electricity

231. Richter scale is used for measuring:

- a. Density of liquid
- b. Intensity of earthquakes**
- c. Velocity of wind
- d. Humidity of air

232. Which instrument is used to measure the electric current?

- a. Ammeter**
- b. Voltmeter
- c. Galvanometer
- d. Electrometer

234. The unit of current is:

- a. Ohm
- b. Watt
- c. Ampere**
- d. None of these

235. Who invented typewriter?

- a. Marconi
 - b. Pascal
 - c. **Sholes**
 - d. Waterman
236. Alexander Fleming discovered:
- a. X-Ray
 - b. Telegraph
 - c. **Penicillin**
 - d. Microscope
237. Television was invented by:
- a. Faraday
 - b. **Baird**
 - c. Edison
 - d. Marconi
238. Blaise Pascal is associated with
- a. **Calculating Machine**
 - b. Computer
 - c. Cinema
 - d. None of these
239. Zero was invented by
- a. **Indians**
 - b. Egyptians
 - c. Greeks
 - d. None of these
240. Who discovered that plants have life?
- a. Robert Koch
 - b. **J.C. Bose**
 - c. Paul Berg
 - d. George Snell
241. Electromagnetic radiation is emitted by:
- a. X-rays
 - b. **Electrons**
 - c. Ultrasonic
 - d. Protons
242. The electric filament of the bulbs is made up of:
- a. Copper
 - b. Iron
 - c. Aluminum
 - d. **Tungsten**
243. Milk is pasteurized to:
- a. **Destroy micro-organisms**
 - b. Enhance taste and flavor
 - c. Increase its food value
 - d. Detect adulteration

244. The most commonly used bleaching agent is:
- Alcohol
 - Calcium Chloride
 - Chlorine**
 - Sodium chloride
245. Which scientist disapproved the theory of spontaneous generation and performed the experiment to show "Life begets life":
- Alexander Fleming
 - Joseph Lister
 - Louis Pasteur**
 - Linus Pauling
246. The folding of the leaf lobes of the Venus fly trap is a response to changing:
- Light pattern
 - Water pressure**
 - Wind speed
 - Wind direction
247. One of most important foreign exchange earning herbs used in the treatment of several kinds of chronic dysentery is:
- Tulsi
 - Isabgol**
 - Madhuca
 - Rauwoldia
248. Which one of the following is the most suitable plant for reclamation of alkaline soil:
- Eucalyptus
 - Pipal
 - Coconut**
 - Kikar
249. The crop in which BT Gene has been used for genetic transformation and which has given rise o a controversy in India is:
- Cotton**
 - Wheat
 - Groundnut
 - Tomato
250. Children confined to closed dark rooms are most likely to suffer from:
- Goiter
 - Anemia**
 - Pellagra
 - Bone deformation
251. Fish and sea foods are very rich in:
- Magnesium
 - Iron
 - Calcium
 - Sodium**

252. WIDAL test is required for the diagnosis of:

- a. Tuberculosis
- b. Tetanus
- c. **Typhoid**
- d. Leprosy

253. Which one of the following is known as first line of defense for the body:

- a. WBC
- b. Antibodies
- c. **Skin**
- d. Nails

254. The yellow color of Yolk is due to the presence of:

- a. Livetin
- b. Phosphate
- c. **Riboflavin**
- d. Vitellin

255. The slurry of biogas plant is an enriched manure as it is vary rich in oxygen_____,_____.

- a. Phosphorus and Potassium
- b. **Sulphur and Nitrogen**
- c. Zinc and Aluminum
- d. Boron and Potash

256. The most economical process of increasing the nutritive value of food grains is:

- a. Germination
- b. **Milling**
- c. Parboiling
- d. Pearling

257. GOUT, a metabolic disease occurs due to the high level of:

- a. **Uric acid in the blood**
- b. Urea in the blood
- c. Sugar in the blood
- d. Cholesterol in the blood

258. Which one of the following is NOT correctly matched:

- a. Becquerel: Radioactivity
- b. Alexander Fleming: Penicillin
- c. **Louis Pasteur: Blood group**
- d. William Harvey: Blood circulation

259. PCR (Polymerase chain reaction) is a technique to make copies of:

- a. **DNA Using living cells**
- b. DNA Without using living cells
- c. RNA using living cells
- d. RNA without using living cells

260. The branch of science dealing with the improvement of human race is:

- a. Genealogy
- b. Cloning

- c. **Eugenics**
- d. Euphenics

261. The main pollination agent in the case of maize plant is:

- a. Bird
- b. Insects
- c. Rodent
- d. **Winds**

262. Spiders and scorpions belongs to the same class of Arthropods as are:

- a. Beetle and locusts
- b. Crabs and Lobsters
- c. Centipedes and Millipedes
- d. **Mites and Ticks**

263. With reference to the plants, mucilage are:

- a. **Glycoproteins**
- b. Polypeptides chains
- c. Polysaccharides
- d. Long chain fatty acids

264. Azolla used as a bio-fertilizer for rice cultivation has a symbiotic relationship with:

- a. Azotobacter
- b. Azospirillum
- c. Aulosira
- d. **Anabaena**

265. Diatom are good indicator of:

- a. Industrial pollution
- b. Intense soil erosion
- c. **Sewage pollution**
- d. Soil Pollution

266. Which one of the following theories is most widely accepted for movement of water through plants:

- a. Capillarity
- b. Cohesion tension
- c. Imbibition
- d. **Root pressure.**

267. Which one of the following organisms has a role in converting nitrates to free Nitrogen:

- a. **Pseudomonas**
- b. Nitrosomonas
- c. Nitrobacter
- d. Rhizobium

268. The human body copper's gland is associated with:

- a. Circulatory system
- b. Digestive system
- c. Nervous system
- d. **Urino-genital system**

268. Which type of light is effective for Photosynthesis to occur:
- Ultraviolet and blue
 - Blue and red**
 - Green and Yellow
 - Blue and Green
269. Which one of the following enzymes can hydrolyze proteins in the stomach:
- Trypsin
 - Pepsin**
 - Lipase
 - Amylase
270. In human body the blood enters the aorta of the circulatory system from the:
- Left atrium
 - Left Ventricle**
 - Right atrium
 - Right Ventricle
271. Which is iodine-deficient disease:
- Arthritis
 - Goiter**
 - Glaucoma
 - Pneumonia
272. Which oil is least recommended for high blood pressure person:
- Coconut oil
 - Groundnut oil
 - Mustard Oil**
 - Sunflower Oil
273. Which Nutrients plays an important role in Coagulation of Blood:
- Calcium**
 - Iron
 - Potassium
 - Sodium
274. Which one of following vitamins can be synthesized by human body?
- Vitamin B1
 - Vitamin B12
 - Vitamin C
 - Vitamin D**
275. What is the process responsible for producing photons in a diode laser?
- Fermi level shift
 - Majority carrier injection
 - Carrier freeze out
 - Electron-hole recombination**
278. Which variety of coal contains the highest percentage of carbon?
- Anthracite**
 - Peat

- c. Bituminous
- d. Lignite

279. What is the main component of biogas and natural gas?

- a. Ethane
- b. **Methane**
- c. Propane
- d. Butane

280. What is dry ice?

- a. Liquid nitrogen
- b. Water ice
- c. **Solid carbon dioxide**
- d. Frozen ethanol

281. Nail polish remover contains mainly:

- a. Methanol
- b. Ethanol
- c. **Acetone**
- d. Limonene

282. Which of the following measurements is not a unit of distance?

- a. **Ammeter**
- b. Cubit
- c. Parsec
- d. Angstrom

283. Who discovered X-rays?

- a. Land
- b. **Roentgen**
- c. Eastman
- d. Kodak

284. What is defined as the change in velocity over time?

- a. **Acceleration**
- b. Speed
- c. Work
- d. Force

285. Which one of the following is caused by virus:

- a. Cholera
- b. **Influenza**
- c. Scabies
- d. Typhoid

286. Which one of the following elements is required by the human body for the hardening of Bones and teeth?

- a. Iodine
- b. Iron
- c. **Phosphorus**
- d. Potassium

287. Which one of the following is not caused by Nutritional deficiency?

- a. Kwashiorkor
- b. Hemophilia**
- c. Beriberi
- d. Marasmus

288. Chemically, what is Snake Venom

- a. Glycolipid
- b. Polysacchride
- c. Protein**
- d. Steroid

289. The root of which one of following plants contain the bacteria that convert free Nitrogen to Nitrates used by plants:

- a. Mustard
- b. Pea**
- c. Sugarcane
- d. Wheat

290. Which one among following is rich in protein?

- a. Boiled rice
- b. Brea of Wheat
- c. Fried Potato Chips
- d. Fried Gram**

291. Which part of Potato plant is used as Vegetable:

- a. Modified root
- b. Modified stem**
- c. Modified leaf
- d. Modified flower

292. Mushrooms are actually?

- a. Algae
- b. Fungi**
- c. Lichens
- d. Parasitic moss plant

293. All Enzymes are actually?

- a. Protein**
- b. Carbohydrates
- c. Fatty acids
- d. Steroids

294. In which organ of the human body is Ammonia converted into Urea?

- a. Kidney
- b. Liver**
- c. Pancreas
- d. Spleen

295. Who saw the cells for the first time in the thin slice of Cork using his crude Microscope?
- August Weismann
 - Louis Pasteur
 - Robert Brown
 - Robert Hooke**
296. Which one of the following is a pigment?
- Albumin
 - Elastin
 - Keratin
 - Melanin**
297. Which of the following is biodegradable:
- D.D.T.
 - Paper**
 - Plastic
 - Aluminium
298. Electrostatic precipitation is used to control:
- Water pollution
 - Solid waste
 - Noise pollution
 - Air pollution**
299. Where was India's first computer installed?
- Indian Statistical Institute, Calcutta**
 - Indian Institute of Technology, Delhi
 - Indian Institute of Science, Bangalore
 - Bharat Sanchar Nigam Ltd, Delhi
300. Centre for DNA Finger printing of India is located at:
- Pune
 - Hyderabad**
 - Mumbai
 - Udaipur
301. The audible range of sound is:
- 20 Hz to 20 MHz
 - 20 Hz to 20 kHz**
 - 20 kHz to 20 MHz
 - 20 Hz to 2000 Hz
302. The nephron is:
- The site of urine storage.
 - The functional unit of the kidney.**
 - The site where ADH is produced.
 - Also called the Bowman's capsule.
303. All of the following are normally found in urine except:
- Glucose**
 - Sodium ions

- c. Uric acid
- d. Urea

304. Which Salt is used in photography?

- a. Phosphorus Nitrate
- b. **Silver Nitrate**
- c. Sodium Nitrate
- d. Sodium Chloride

305. In elephants, which teeth are grown into huge tusks?

- a. Incisors of the lower jaw
- b. Canines of the upper jaw
- c. **Incisors of the upper jaw**
- d. Molars of the lower jaw

306. Tip of the match-stick contains:

- a. Phosphorus penta oxide
- b. White phosphorus
- c. **Red phosphorus**
- d. Phosphorus penta chloride

307. Commercial name of Sodium bicarbonate is:

- a. Washing soda
- b. **Baking soda**
- c. Bleaching powder
- d. Soda ash

308. Which glands in human body produce growth hormones:

- a. Adrenal
- b. Pancreas
- c. **Pituitary**
- d. Thyroid

309. From evolutionary point of view which one of the following is more advanced:

- a. Crocodile
- b. **Dolphin**
- c. Shark
- d. Tortoise

310. Which one of the following Minerals is required for muscle contraction:

- a. **Calcium**
- b. Iron
- c. Sodium
- d. Zinc

311. What is the key ingredient of Vinegar that you use in diet:

- a. Acetic acid
- b. Ascorbic acid
- c. **Benzoic Acid**

d. Nicotinic Acid

312. Which of the following receives message from hypothalamus and communicates with other endocrine glands:

- a. **Pituitary**
- b. Thyroid
- c. Pancreas
- d. Thymus

313. The part of grain in cereals, where much of the protein lies is the:

- a. **Aleurone layer**
- b. Lendosperm
- c. Pericarp
- d. Embryo

314. In which part of human body is the smallest bone found?

- a. Wrist
- b. Palm
- c. Nose
- d. **Ear**

315. Primarily which one of the following system of the body is attacked by HIV:

- a. Cardiovascular
- b. **Immune**
- c. Respiratory
- d. Reproductive

316. Which one of the following is a stem tissue:

- a. Carrot
- b. **Cactus**
- c. Ginger
- d. Flower

317. Vaccines are:

- a. Same as monoclonal antibodies
- b. **Treated bacteria or virus or one of their protein**
- c. Protein
- d. Strands of nucleic acid

318. Which one of the following is used as antibacterial dye for skin infection:

- a. Barium
- b. Cobalt
- c. **Gentian violet**
- d. Nicotinamide

319. Tricuspid valve is found in:

- a. Brain
- b. Heart
- c. Spleen
- d. Veins

320. In India, the human organ transplantation act come into existence in:

- a. 1994
- b. **1995**
- c. 1996
- d. 1997

321. Which one of following algae is a wonder crop with about 70% protein, even more than Soyabean?

- a. Chlorella
- b. Dunaliella
- c. Scenedesmus
- d. **Spirulina**

322. The science dealing with Human variations and heredity leading to the improvement of human race is known as:

- a. **Eugenics**
- b. Genetics
- c. Hybridization
- d. Mutation

323. The part of poppy plant which yields opium is?

- a. Dried root
- b. Dried leaves
- c. Dried seeds
- d. **Unripe fruits**

324. Vitamin A is also known as:

- a. Ascorbic acid
- b. **Retinol**
- c. Thiamine
- d. Riboflavin

325. If all the plants and trees vanish from the earth, the gas which will decrease:

- a. Carbon dioxide
- b. Nitrogen
- c. Water vapor
- d. **Oxygen**

326. Dynamo is a Machine which is used for:

- a. Conversion of High Voltage to low voltage
- b. Conversion of Low Voltage to high voltage
- c. Conversion of Electrical energy to Mechanical energy
- d. **Conversion of Mechanical Energy to Electrical energy**

327. The Halogen being used as Analgesic is:

- a. Chlorine
- b. Bromine
- c. Iodine
- d. **Fluorine**

328. The IC Chip used in computer is made of:

- a. Copper

- b. **Silicon**
- c. Steel
- d. Plastic

329. Ozone layer is above the earth crust around:

- a. 50 KM
- b. 300 KM
- c. 2000 KM
- d. **20 KM**

330. The Saliva helps in the digestion of :

- a. **Starch**
- b. Proteins
- c. Fibers
- d. Fat

331. In Television Broadcast, the picture signals are transmitted by:

- a. **Amplitude Modulation**
- b. Frequency Modulation
- c. Phase Modulation
- d. Angle Modulation

332. The cooling by a desert Cooler is based on:

- a. Hot air replacement
- b. Air dehydration
- c. **Evaporative Cooling**
- d. Air Rehydration

333. First three Universities (Kolkata, Mumbai, Madras) was established in which year

- a. **1857**
- b. 1881
- c. 1885
- d. 1905

334. Carrier of parasite plasmodium is:

- a. Fly
- b. **Mosquito**
- c. Teek
- d. Air

335. Color of leave is green because:

- a. **It reflect Green color and absorb other colors**
- b. It reflect White color & absorb other colors
- c. It reflects all colors
- d. It absorb all colors

336. Making of Curd from Milk is because of:

- a. Virus
- b. **Bacteria**
- c. Protozoa
- d. Other

337. H5N1 influenza is:

- a. Goat flu
- b. **Bird Flu**
- c. Horse Flu
- d. Cow Flu

338. Baby Blue Syndrome is because of:

- a. Phosphate
- b. Sulphate
- c. Carbonate
- d. Nitrate

339. Collection of preserved plant specimens-

- a. **Herbarium**
- b. Sanatorium
- c. Planetarium
- d. Sabhaghar

340. Microscope uses which lens:

- a. **Convex**
- b. Concave
- c. Biconvex
- d. Biconcave

341. First Organic compound Produced in Laboratory was

- a. Citric Acid
- b. Aczelic Acid
- c. Nitric Acid
- d. **Urea**

342. Which is an organic Acid-

- a. **Citric Acid**
- b. Sulfuric Acid
- c. Nitric Acid
- d. Sulfuric Acid

343. Pearl is mainly constituted of:

- a. **Calcium carbonate**
- b. Calcium Sulphate
- c. Calcium Oxalate
- d. Calcium Oxide

344. Which one of the following acid is formed during the change of milk into curd

- a. Acetic acid
- b. Ascorbic Acid
- c. Citric Acid
- d. **Lactic Acid**

345. By which process the sea water can be converted into pure water:

- a. Deliquescence

- b. Efflorescence
- c. Electric separation
- d. **Reverse Osmosis**

346. When beam of Red, blue and green light falls on the same spot, the color of light becomes:

- a. Violet
- b. Red
- c. Yellow
- d. **White**

347. The atomic nucleus was discovered by

- a. **Rutherford**
- b. Dalton
- c. Einstein
- d. Thompson

348. Which of the following diseases antibiotics cannot cure:

- a. Leprosy
- b. **Tetanus**
- c. Measles
- d. Cholera

349. Which hormone when secreted increases heart beat and produces a feeling of excitement

- a. Cortisone
- b. Insulin
- c. **Adernalin**
- d. testosterone

350. Which organ of human body does the disease Alzheimer affect

- a. The ear
- b. **Brain**
- c. Eye
- d. Stomach

351. The branch of physics that deals with the motion of a very small particles is called:

- a. Field theory
- b. Particle physics
- c. **Quantum mechanics**
- d. Atomic physics

352. How many units of electricity will be consumed if you use a 60 watt electric bulb for 5 Hour everyday for 30 days:

- a. 12
- b. **9**
- c. 6
- d. 3

353. Which of the following statement is correct about clone of an organism:

- a. A clone has characteristics of both its parents
- b. **A clone is produced asexually**
- c. Identical twins are clones of an organism
- d. Two clones of an organism may not be identical.

- b. Smallpox
- c. **Typhoid**
- d. Mumps

363. The chemical name of Vitamin B is:

- a. **Thiamine**
- b. Ascorbic Acid
- c. Riboflavin
- d. None of these

364. Which of the following Scientists classified blood into four groups

- a. **Hervey**
- b. Costello
- c. Faraday
- d. Pasteur

365. In the eye, color vision is effected by the presence of:

- a. Cornea
- b. **Choroid coat**
- c. Cones
- d. Rods

366. Which of the following substances is used for preservation of food grains:

- a. Sodium Chloride
- b. Vinegar
- c. Potassium
- d. **Sodium Benzoate**

367. The splitting of different colors of light in a prism is:

- a. Refraction of light
- b. Dispersion of light
- c. Reflection of light
- d. Diffraction of light

368. During cardiac failure which one of the following is recommended as a first aid:

- a. Giving cardiac message
- b. Giving hot water to drink
- c. **Mouth to mouth resuscitation**
- d. Giving complete body massage

369. The rays of sun fall vertically on:

- a. Doldrums
- b. Poles
- c. Tropics
- d. **Equator**

370. Bronchitis is a disease of:

- a. Liver
- b. **Respiratory tract**
- c. Bladder
- d. Blood

371. Night blindness is caused due to the deficiency of:

- a. **Vitamin A**
- b. Vitamin B
- c. Vitamin C
- d. Vitamin D

372. Red Blood Corpuscles are produced by:

- a. **Bone Marrow**
- b. Heart
- c. Liver
- d. Skin

373. Which of the following metal have lowest melting point:

- a. Sodium
- b. **Potassium**
- c. Lead
- d. Lithium

374. Name the instrument used in reading of an earthquake?

- a. Lactometer
- b. **Seismograph**
- c. Cardiograph
- d. Physiograph

375. Philately is related:

- a. Collection of old coins
- b. Collection of literature
- c. **Collection of stamps**
- d. Collection of rare paintings

376. The nucleus of an atom consists of:

- a. Electron and Neutron
- b. Electrons and protons
- c. **Protons and neutrons**
- d. Protons only

377. The process of union of two or more molecules of a substance to form a large single molecule is called:

- a. Fusion
- b. Fission
- c. **Polymerization**
- d. Diffusion

378. The term 'carat' is used to express purity of gold. The purest form of gold is:

- a. 22 Carats
- b. 18 Carats
- c. **24 Carats**
- d. 26 Carats

379. Who among the following was the first to measure the circumference of the earth?

- a. Aryabhatta

b. **Eratosthenes**

c. Newton

d. Einstein

380. The muscles of the body are developed by the intake of:

a. Fats

b. **Proteins**

c. Carbohydrates

d. Mineral Salts

381. Which of the following has a plant origin?

a. Insulin

b. **Quinine**

c. Aspirin

d. Chloromycetin

382. Which of the following substance is present in human tears?

a. Potassium Chloride

b. Starch

c. Calcium Chloride

d. **Sodium Chloride**

383. Which of the following disease is not caused by bacteria?

a. Tetanus

b. Cholera

c. Pneumonia

d. **Rabies**

384. Which one of the following is not a function of liver?

a. Synthesis of glycogen

b. Production of bile

c. Breakdown of RBC

d. **Production of Insulin**

385. Source of energy of the sun is:

a. **Natural Radioactivity**

b. Nuclear Fusion

c. Nuclear Fission

d. None of these

386. Which of the following is the strongest force?

a. **Gravitational Force**

b. Atomic Force

c. Electromagnetic force

d. Nuclear force

387. Which of the following is a water soluble vitamin?

a. Vitamin A

b. Vitamin K

c. Vitamin E

d. **Vitamin C**

388. Dyne is the unit of :

- a. Momentum
- b. Work
- c. **Force**
- d. Energy

389. Which object is used for dating archeological specimens in fossils, bones and shells?

- a. **Carbon -14**
- b. Uranium-238
- c. Borax
- d. Urea

390. From which of the following mineral iron is obtained?

- a. **Hematite**
- b. Monazite Sands
- c. Limestone
- d. Rocks

391. Soap makes the water easier to wash clothes because:

- a. **Decreases its surface tension**
- b. Removes hardness
- c. Increase its density
- d. None of above

392. Newton's law of gravitation is:

- a. For atoms
- b. Applicable to light bodies
- c. For Heavy bodies
- d. **Universal**

393. Which disease is caused by bacterial infection?

- a. Cancer
- b. Rabbits
- c. Malaria
- d. Tetanus

394. Which one of the following has highest fuel value?

- a. **Hydrogen**
- b. Gasoline
- c. Natural gas
- d. Charcoal

395. Antibodies cure disease by:

- a. Removing pain
- b. **Competitive inhibition**
- c. Tuning the pathogen out of body
- d. None of the above

396. The character order of garlic is due to :

- a. Acetic Acid

b. **A Sulphur Compound**

c. A Fluorine Compound

d. A Chloro Compound

397. Which one of the following has the highest fuel value?

a. **Hydrogen**

b. Gasoline

c. Natural Gas

d. Charcoal

398. The group of small pieces of rock revolving round the sun between the orbits of Jupiter and Mars are known as:

a. **Asteroids**

b. Comets

c. Meteors

d. Stars

399. The instrument used for measuring the intensity of sound is called:

a. Altimeter

b. **Sonometer**

c. Audiometer

d. Anemometer

400. Which one of the following planet has no satellite?

a. Pluto

b. Neptune

c. **Mercury**

d. Mars

401. Relative humidity of the atmosphere is measured by:

a. **Hygrometer**

b. Fathometer

c. Barometer

d. Spectrograph

402. The nearest planet to the sun is:

a. **Mercury**

b. Saturn

c. Mars

d. Pluto

403. The major component of honey is:

a. **Fructose**

b. Glucose

c. Sucrose

d. Maltose

404. Which one of the following produces Vitamin D for body?

a. Liver

b. **Skin**

c. Lungs

d. Stomach

405. Blood sugar is the amount of _____ in the circulating blood:

- a. **Glucose**
- b. Chlorophyll
- c. Sucrose
- d. None of the above

406. The energy released on account of the motion of a body is termed as the:

- A. potential energy
- B. kinetic energy**
- C. relative velocity
- D. None of these

407. Kilowatt is the measuring unit of:

- A. power**
- B. current
- C. work
- D. energy

408. In which unit can we measure food energy?

- A. Calorie**
- B. Keloin
- C. Joule
- D. Erg

409. The conservation of energy principle refers to the fact that:

- A. it is essential not to waste natural gas and oil, for these are limited in supply
- B. solar heating makes use of the sun's energy, which would otherwise be wasted
- C. energy can neither be created nor destroyed**
- D. nuclear-power plants recycle spent fuel

410. One HP is equal to ___ kg per meter per second.

- A. 25
- B. 50
- C. 75**
- D. 10

411. When a constant force is applied to a body, it moves with uniform:

- A. Speed

B. Velocity

C. Acceleration

D. Momentum

412. 'Parsec' is a unit of:

A. weight

B. time

C. speed

D. distance

413. Knot is unit of speed of which of the following?

A. Ship

B. Aeroplane

C. Light rays

D. Sound waves

414. Assume that - A denotes narrow wheel, A wider wheel, B denotes small free wheel, B larger free wheel, C denotes small gear wheel, C larger gear wheel, - in a rural area where there are sandy tracts, it will be advisable to use a bicycle with :

A. A, B, C

B. A, B, C

C. A, B, C

D. A, B, C

415. A wheel that has 6 cogs is meshed with a larger wheel of 14 cogs. When the smaller wheel has made 21 revolutions, the number of revolutions made by the larger wheel is:

A. 12

B. 49

C. 9

D. 4

416. If rubber tyres replace wheels in bullock carts then:

1. speed of bullock cart increases

2. load carrying capacity increases

3. the capacity of bullock to pull the cart at a stretch increases

4. None of the above

A. 1 & 3 correct

B. 2 & 3 correct

C. 1 & 2 correct

D. 1, 2 & 3 correct

417. Rolling a drum is easier than pulling it along a road because:

- A. rolling causes less friction**
- B. friction is more when the object is rolled
- C. pulling will damage the drum
- D. None of the above

418. Walking on ice is more difficult than walking on concrete because ice:

- A. gives less friction**
- B. gives more friction
- C. is very cold and as such blood gets frozen up
- D. being soft, one can get bogged down into it while walking

419. What should be done by a car driver if he is caught on the way by a severe thunder storm and lightning?

- A. He should leave the wheel and lie down on the ground**
- B. He should remain inside the car with its window glasses all pulled up
- C. Park the car beneath a tall tree
- D. Just bite a piece of cotton firmly in between the two rows of teeth

420. Ball bearings are used in cycles and scooters to:

- A. reduce the area of contact between the two surfaces in contact
- B. reduce friction between wheel and axle**
- C. increase friction between wheel and axle
- D. reduce friction between ground and vehicle

421. How do the centripetal forces pull a body?

- A. Upward
- B. Downward
- C. Inwards**
- D. Outwards

422. When milk is churned, the cream separates from it due to the:

- A. cohesive force
- B. frictional force
- C. centrifugal force**
- D. gravitational force

423. A body in circular motion requires:

- A. centrifugal force
- B. centripetal force**
- C. inertial force
- D. gravitational force

424. The rising of ink to the point of nib in a fountain pen is due to:

- A. surface tension
- B. capillary action**
- C. gravitational attraction
- D. None of the above

425. As one goes up the mountain one suffers from nose bleeding sometimes. The reason is that

- A. blood pressure decreases at high altitudes
- B. blood pressure increases at high altitudes
- C. as one starts going up, the pressure of the blood capillaries becomes higher than the outside pressure**
- D. None of the above

426. Birds get thrust (forward motion) and lift (upward motion) from:

- A. flapping of wings**
- B. twisting of feathers
- C. shape of wings which is similar to airplane blades
- D. air sacs

427. Small rain-drops are spherical in shape because of:

- A. surface-tension**
- B. gravity
- C. atmospheric pressure
- D. evaporation

429. The cross-section of the water column in the given figure is circular. The diameter of the bigger limb is 4 cm and that of the smaller limb 2 cm. A force of 40kg is placed at the bigger end. What force will be required at the smaller end to keep the level of water balanced?

- A. 20 kg
- B. 80 kg
- C. 160 kg
- D. 10 kg**

430. A body partially floats in water when:

- A. the volume of the displaced water is greater than the volume of the body
- B. a body immersed in fluid loses as much in weight as the weight of the displaced volume of the fluid**
- C. the mass of the displaced water is greater than the mass of the body
- D. None of the above

431. Which of the following is used in diesel engine?

1. Cylinder
2. Spark plug
3. Piston

Choose your answer from the codes given below :

- A. 1, 2 and 3
- B. 1 and 2
- C. 2 and 3
- D. 1 and 3**

432. Iron is heavier than water, still the ship floats on the sea because

- A. weight of the ship is less than the weight of water in the sea
- B. weight of the ship is more than sea water
- C. weight of the ship is less than the weight of water that the ship displaces**
- D. weight of ship is equal to the weight of water that ship displaces

433. The volume of an object will be maximum when it is:

- A. spherical**
- B. rectangular
- C. cone shaped
- D. triangular

434. The mass of the body is different from its weight because:

- A. mass is variable quantity whereas weight is constant
- B. mass is constant but weight increases as the body moves from the poles to the Equator
- C. mass varies very little at different places where as weight varies a lot
- D. mass is a measure of the quantity of matter where as weight is a force**

435. Which one of the following is a vector quantity?

- A. volume
- B. mass
- C. weight**
- D. density

436. The weight of a body at the centre of the earth is:

- A. increased
- B. neutralized**
- C. decreased
- D. the same

437. The planet nearest to the Sun is:

- a. Venus
- b. Mercury**
- c. Earth
- d. Mars

438. The melodious effect on our ear produces by the combination of two or more

notes of the modern pop songs is called

- a. **Concord**
- b. Chords
- c. Beats
- d. Overtones

439. Radioactive decay provides an internal source of heat for the earth. This helps in the formation of which kind of rocks?

- a. Igneous
- b. Sedimentary
- c. **Metamorphic**
- d. All of the above

440. An Astronomical unit is related to:

- a. **The distance between sun and the earth**
- b. The distance between moon and earth
- c. The distance between sun and moon
- d. None of the above

441. Rice polishing is rich in

- a. Lactoflavin
- b. Calciferol
- c. Tocopherol
- d. **Aneurin**

442. The three primary colors are:

- a. Green, Yellow, Red
- b. **Red, Green , Blue**
- c. Blue , Yellow, Red
- d. Blue, Yellow, Green

443. Which one of the following is responsible for the energy release by stars?

- a. Fission
- b. **Fusion**
- c. Chemical Reaction
- d. Gravitational Collapse

444. Which of the following statements given below is correct in the respect of a geostationary satellite?

- a. It moves in a plane containing the Greenwich meridian
- b. It moves in a plane perpendicular to the celestial equatorial plane
- c. Its height above the earth's surface is about the same as the radius of the earth
- d. **Its height above the earth's surface is about the six times the radius of the earth**

445. Wi MAX is related to which one of the following:

- a. Biotechnology
- b. Space technology
- c. Missile technology
- d. **Communication Technology**

446. The 'fizz' in soft drinks is produced by adding which acid?

- a. **Carbonic acid**
- b. Nitric acid
- c. Hydrochloric acid
- d. Citric acid

447. What will happen if the star having mass greater than five times of the Sun is dead?

- a. White dwarf will form
- b. Neutron star will form
- c. **Black hole will form**
- d. Nebula will form

448. The greatest seasonal contrast of isolation on the earth is in which of the following latitudinal zones?

- a. Equatorial
- b. Tropical
- c. **Temperature**
- d. Polar

449. Which of the following radioactive elements is found in large amounts in India?

- a. Radium
- b. **Thorium**
- c. Plutonium
- d. Uranium

450. The bond which is present between water molecules is:

- a. Electrovalent bond

- b. **Covalent bond**
- c. Hydrogen bond
- d. Vander Waals bond

451. In general what is range of frequency of the "Message Signal"?

- a. **Radio Frequency**
- b. Audio Frequency
- c. Both 'a' and 'b'
- d. Neither 'a' and 'b'

452. The number of Chromosomes pairs in Human body are:

- a. **23**
- b. 42
- c. 46
- d. None of above

453. Water is a good solvent. This is due to:

- a. **Dielectric constant of water**
- b. Surface tension of water
- c. Specific heat of water
- d. Heat of fusion of water

454. The formation of three dimension image by interference of two light beams from the laser or other coherent source of light is called

- a. Optical photography
- b. **Holography**
- c. X-ray photography
- d. Radiography

455. A jet engine works on the principle pf conversion of:

- a. Energy
- b. Mass
- c. **Linear momentum**
- d. Angular momentum

456. Which of the following is the best conductor of electricity:

- a. Water
- b. **Mercury**
- c. Wood

d. Leather

457. Which one of the following phenomena shows particle nature of light?

- a. Polarization
- b. **Photo-electric effect**
- c. Interference
- d. Refraction

458. Heavy water is:

- a. Ice
- b. Water at 4 Degree Celsius
- c. Solution of sugar and water
- d. **Deuterium oxide**

459. Aspirin can be found in many household medicine cabinets. But what is it chemically?

- a. Ibuprofen
- b. Paracetamol
- c. **Acetylsalicylic acid**
- d. None of these

460. Which substance goes milky/ cloudy when you bubble carbon-dioxide into it?

- a. Hard water
- b. **Lime water**
- c. Distilled water
- d. None of these

461. Which one of the following is deviated by an electric field?

- a. Alpha rays
- b. **Gamma rays**
- c. Neutrons
- d. X-rays

462. Ohm's law defines:

- a. A resistance
- b. Current only
- c. Voltage only
- d. **Both current and voltage**

463. The complete digestion of carbohydrates, proteins and fats occurs in:

- a. Stomach
- b. Liver
- c. **Small intestine**
- d. Large intestine

464. A solar cell is a device that converts:

- a. Light energy into heat energy
- b. Heat energy into electrical energy
- c. Electrical energy into light energy
- d. **Light energy into electrical energy**

465. Which variety of coal contains the highest percentage of carbon?

- a. Lignite
- b. Bituminous
- c. **Anthracite**
- d. Peat

466. Bile is secreted in:

- a. **Pancreases**
- b. Small intestine
- c. Stomach
- d. Liver

467. The sex of newborn baby is determined by the chromosomes inherited from:

- a. The mother
- b. **The father**
- c. Mother's mother
- d. Father's father

468. A person suffering from which of the following cannot see with clarity the horizontal and vertical lines simultaneously?

- a. Myopia
- b. Hypermetropia
- c. **Astigmatism**
- d. Squint

469. Vinegar is obtained by the fermentation process; what does it contain?

- a. **Acetic acid**
- b. Formic acid

- c. Nitric acid
- d. Oxalic acid

470. The chemical compound in the common salt is:

- a. Potassium nitrate
- b. Ammonium chloride
- c. Calcium carbonate
- d. **Sodium chloride**

471. Hygrometer is used to measure

- a. **Humidity of the atmosphere**
- b. Density of milk
- c. Speed of sound in water
- d. None of the above

472. The instrument used to measure radioactivity is called:

- a. Gyroscope
- b. Nephoscope
- c. Machmeter
- d. **Geiger Counter**

473. The principle of cleaning by soap is;

- a. **Surface tension**
- b. Floatation
- c. Viscosity
- d. Elasticity

474. Which one among the following lasers is used in cancer treatment?

- a. He-Ne Laser
- b. Ruby Laser
- c. **CO₂ Laser**
- d. Semiconductor Laser

475. The gas which constitutes the most of Venus's atmosphere is:

- a. Oxygen
- b. Nitrogen
- c. Hydrogen
- d. **Carbon-dioxide**

476. The souring of milk is caused by the action of:

- a. Protozoa
- b. **Bacteria**
- c. Viruses
- d. None of these

477. Summer Solstice falls every year on:

- a. 23rd September
- b. 21st March
- c. 4th July
- d. **21st June**

478. Planet Saturn is:

- a. Cooler than Pluto
- b. Cooler than Neptune
- c. **Hotter than Neptune**
- d. Hotter than Jupiter

479. A layer of Earth made up of mixed metals and silicates is called:

- a. **Sail**
- b. Sima
- c. Mantle
- d. Nife

480. Which one of the following is used in making bullet proof materials?

- a. Polyvinyl chloride
- b. Poly carbonate
- c. Polyethylene
- d. **Ployamide**

481. What is the distance of earth from the sun?

- a. 107.7 million Km.
- b. 142.7 million Km.
- c. 146.6 million Km.
- d. **149.6 million Km.**

482. The exhaustion of soil fertility is the result of:

- a. Cover cropping
- b. Multiple cropping

- c. Rotation cropping
- d. **Over cropping**

483. Modern movie songs released are the best in quality of sound. The rich quality of sound is due to which one of the following?

- a. A note of high frequency
- b. A note of high amplitude
- c. **Consists many harmonics**
- d. Consists the fundamental frequency

485. Which acid substance is found in vinegar?

- a. Lactic Acid
- b. Citric Acid
- c. Maleic Acid
- d. **Acetic Acid**

486. What type of fruit is pineapple?

- a. Siliqua
- b. Sorosis
- c. **Sycnous**
- d. Samara

487. What is the pH value of human blood?

- a. **7.36 to 7.42**
- b. 8.36 to 8.42
- c. 6.36 to 6.42
- d. None of the above

488. Who discovered penicillin?

- a. Alexander Graham Bell
- b. **Alexander Fleming**
- c. Christopher McDonald
- d. Albert Einstein

489. The depth to which a floating body sinks in pure water is a measure of its:

- a. **Density**
- b. Weight
- c. Inertia
- d. Viscosity

490. Strobilus is a structure associated with:

- a. Pea
- b. Potato
- c. **Pinus**
- d. Palm

491. What is the name of NASA vehicle on Mars?

- a. **Phoenix**
- b. Roger
- c. Florida
- d. John Canady

492. Which one of the following is the source of solar energy:

- a. **Nuclear fusion**
- b. Nuclear fission
- c. Artificial radioactivity
- d. X-ray emission

493. When the speed of moving object is doubled, its:

- a. Acceleration is doubled
- b. Kinetic energy is doubled
- c. **Kinetic energy increases four times**
- d. Weight is doubled

494. Which part of animal cell is called powerhouse?

- a. Cell Wall
- b. Nucleus
- c. **Mitochondria**
- d. Entire cell

495. What is not found in animal cell:

- a. **Cell wall of cellulose**
- b. Nucleus
- c. Mitochondria
- d. None of these

496. The impurity atom with which pure silicon should be doped to make a p-type semiconductor are those of

- a. Phosphorus
- b. **Boron**
- c. Anatomy
- d. Arsenic

497. Who discovered electric bulb?

- a. **Thomas Addison**
- b. Alexander Graham Bell
- c. William Cooke
- d. Terry Addison

498. The 'solder' used in connecting electronic circuits consists of;

- a. **Lead and tin**
- b. Tin and iron
- c. Copper and lead
- d. Lead and aluminum

499. The mammal capable of flying is:

- a. Jaguar
- b. Ostrich
- c. Pallican
- d. **Bat**

500. A microwave oven uses:

- a. Infrared rays
- b. Ultraviolet rays
- c. **Radio waves of very short wavelength**
- d. Radio waves of long wavelength

501. Who invented Thermoscope, an early form of thermometer?

- a. Sir Cristopher Wren
- b. Charles F.Richter
- c. **Gelileo**
- d. Buno Gutenberg

502. Which one of the following gases is ejected in volcanic eruptions:

- a. Hydrogen
- b. Nitrogen

- c. Chlorine
- d. **Sulphur dioxide**

503. Who propounded the theory of evolution?

- a. Spencer
- b. **Darwin**
- c. Wellace
- d. Huxley

504. Which one of the following planets is said to be "twin sister" of the Earth?

- a. Mercury
- b. **Venus**
- c. Mars
- d. Jupiter

505. What function does blood perform in body?

- a. **Takes oxygen to all parts**
- b. Maintains liquidity
- c. Helps in digestion
- d. Helps in erection

506. How many chambers are there in heart?

- a. 2
- b. **4**
- c. 6
- d. 8

507. Which one of the following pairs of physical quantities may be represented in the same unit?

- a. Temperature and mole
- b. **Heat and work**
- c. Heat and temperature
- d. Specific heat and heat

508. Who among the following gave the first experimental value of G?

- a. **Cavendish**
- b. Brook Taylor
- c. Copernicus
- d. Albert Einstein

509. A cold soft drink is kept on balance. When the cap is opened, then the weight

- a. Increases
- b. Decreases
- c. **First increases then decreases**
- d. Remain same

510. Which of the following does not pollute:

- a. **Copper**
- b. Cadmium
- c. Arsenic
- d. Nickel

511. Sea water can be purified by the process of:

- a. **Distillation**
- b. Evaporation
- c. Filtration
- d. Fractional Distillation

512. Neutron was discovered by:

- a. Rutherford
- b. **Chadwick**
- c. Hahn and Strassman
- d. Milian

513. Two boats are moving in same direction in a river. What is the best condition so that they move parallel in the same direction?

- a. They should move parallel
- b. They should slightly bend to each other
- c. **They should move away from each other**
- d. It is not possible

514. The cause of Tuberculosis is:

- a. Virus
- b. **Bacteria**
- c. Fungi
- d. Protozoan

515. The situation of global warming in atmosphere is developed due to increase in which gas?

- a. Oxygen
- b. **Carbon-dioxide**
- c. Hydrogen
- d. Nitrogen

516. Which of the following has the least penetrating power?

- a. **alpha particles**
- b. beta particles
- c. gama particles
- d. None of these

517. Which rays of ultraviolet are most dangerous?

- a. UV A
- b. **UV B**
- c. UV C
- d. UV D

518. Optical fiber mainly used in communication is based on

- a. less absorption coefficient
- b. less scattering
- c. **total internal reflection**
- d. refraction

519. When a red glass is heated in dark room it will seem

- a. Black
- b. **Green**
- c. Yellow
- d. Red

520. The snake bite firstly affects which part of the body?

- a. Nervous system
- b. Brain
- c. **Blood circulation**
- d. Lungs

521. Human skin is :

- a. A Cell
- b. A tissue
- c. **An organ**

d. All of these

522. Which one of the following causes green house effect?

- a. Cosmic rays
- b. Ultra-violet rays
- c. **Infrared rays**
- d. Radio waves

523. Insects are able to run on the surface of water because

- a. Insects have less weight
- b. Insects can swim on water
- c. of the Archimede's upthrust
- d. **surface tension makes the surface behave as an elastic membrane**

524. Cryogenic engines find application in

- a. washing machine
- b. frost free refrigerator
- c. **rocket technology**
- d. sub-marine propulsion

525. Insulin is secreted by:

- a. Spleen
- b. Gonads
- c. Liver
- d. **Pancreas**

526. Why is it easier to swim in sea water?

- a. atmospheric pressure is highest at the sea
- b. Sea water contains salt
- c. **Density of sea water is higher than the ordinary water**
- d. None of the above

527. A color-blind person cannot differentiate between:

- a. Yellow and green
- b. Black and blue
- c. **Red and green**
- d. Blue and green

528. If the spinning speed of the earth is increased then the weight of body at equator

- a. Increases
- b. **Decreases**
- c. Doubles
- d. does not change

529. The mirror used by a dentist to examine the teeth of patients is :

- a. **Concave**
- b. Convex
- c. Plane
- d. Cylindrical

530. Wireless communication is reflected to earth's surface by:

- a. Troposphere
- b. Stratosphere
- c. **Ionosphere**
- d. Exosphere

531. Sound above what level is considered hazardous noise pollution?

- a. 30 dB
- b. 40 dB
- c. 60 dB
- d. **80 dB**

532. What type of electromagnetic radiation is used in the remote control of a television?

- a. **Infrared**
- b. Ultra-violet
- c. Visible
- d. None of these

533. The radiation that is absorbed by ozone present in the atmosphere is:

- a. Infrared
- b. Visible
- c. **Ultraviolet**
- d. Microwave

534. Which of the following gases is used for the purification of drinking water?

- a. Sulphur dioxide
- b. **Chlorine**
- c. Fluorine

d. Carbon dioxide

535. The group of stars arranged in a definite pattern is called:

- a. Milky way
- b. **Constellation**
- c. Andromeda
- d. Solar System

536. Refrigeration helps in food preservation by:

- a. Killing the germs/bacteria
- b. **Reducing the rate of biochemical reaction**
- c. Destroying the enzyme action
- d. Sealing food with a layer of ice

537. When the light is passed through a prism, the color which deviates least is

- a. **Red**
- b. Green
- c. Violet
- d. Blue

538. Two balloons are blown into spherical shape of unequal size and are connected through a narrow tube. Then what will observe?

- a. The smaller balloon becomes bigger
- b. The bigger balloon becomes smaller
- c. **The smaller becomes smaller and the bigger becomes bigger**
- d. There is no change in their size

539. Among the biotic components of eco-system, the producer system is :

- a. Cow
- b. Peacock
- c. Tiger
- d. **Green Plants**

540. If a door of running refrigerator is kept open in a closed room, what will happen to the room?

- a. It cool the room
- b. **It will heat the room**
- c. It will make no difference on the average
- d. It will make the temperature go up and down

541. Which of the following gases contribute to the 'Green House Effect'?

- a. Ammonia and Ozone
- b. Carbon monoxide and Sulphur dioxide
- c. Carbon tetrafluoride and nitrous oxide
- d. **Carbon dioxide and methane**

542. Which of the following is the most suitable ecosystem?

- a. Desert
- b. Mountain
- c. **Ocean**
- d. Forest

543. The common refrigerant used in domestic refrigerator is:

- a. Neon
- b. Oxygen
- c. Nitrogen
- d. **Feron**

544. Which of the following cannot be emitted by radioactive substances during their decay?

- a. Electrons
- b. Protons
- c. Neutrons
- d. **Helium**

545. Which of the following food items are rich in iron:

- a. Rice
- b. **Apple**
- c. Pulses
- d. Orange

546. Which of the following diseases is not transmitted by tiger mosquitoes?

- a. Yellow fever
- b. Dengue
- c. Chikungunya
- d. **Japanese Encephalitis**

547. The focal length of convex lens is:

- a. the same for all the colors

- b. **shorter for blue light than for red**
- c. shorter for red light than for blue
- d. maximum for yellow light

548. Beri-Beri is caused by the lack of Vitamin

- a. C
- b. D
- c. **B1**
- d. A

549. Climate change is caused by:

- a. Green house gases
- b. Depletion of ozone layer
- c. Pollution
- d. **All of these**

550. The tide produced in an ocean when the pull on the Earth by the Sun and Moon is unidirectional

- a. High tide
- b. **Spring tide**
- c. Neap tide
- d. Low tide

551. You are on a friction less horizontal plane How can you get off if no horizontal force is exerted by pushing against the surface?

- a. By jumping
- b. **By splitting**
- c. By rolling your body on the surface
- d. By running on the plane

552. Which one of the following air pollutant can affect blood stream leading to death?

- a. Asbestos dust
- b. Cadmium
- c. Lead
- d. **Carbon monoxide**

553. The most familiar form of radiant energy in sunlight that cause tanning and has the potential for causing melanoma in humans is called

- a. infra-red radiation
- b. visible radiation
- c. **ultra-violet radiation**
- d. microwave radiation

554. The vitamin useful in alcoholism is:

- a. **Thiamine**
- b. Pyridoxine
- c. Folic acid
- d. Ascorbic acid

555. The disease caused by the deficiency of protein in children is :

- a. **Marasmus**
- b. Pellagra
- c. Beri-Beri
- d. Rickets

556. Which is naturally occurring anti-malarial drug?

- a. **Quinacrine**
- b. Antimisinine
- c. Mefloquine
- d. Mepacrine

557. Vitamin K is necessary for:

- a. Prevention of rickets
- b. Prevention of pernicious anemia
- c. **Formation of prothrombin**
- d. Formation of DNA

558. A car is moving with high velocity when it takes a turn. A force acts on it outwardly because of

- a. centrifugal force
- b. **centripetal force**
- c. gravitational force
- d. All of the above

559. Aldosterone regulates:

- a. Blood Glucose

- b. Serum Calcium
- c. **Urine Concentration**
- d. Sodium absorption

560. An athlete diving off high springboard can perform a variety of exercise in the air before entering the water body. Which one of the following parameters will remain constant during the fall?

- a. The athlete's linear momentum
- b. **The athlete's angular momentum**
- c. The athlete's kinetic energy
- d. The athlete's moment of inertia

561. Cream gets separated from milk when it is churned because of:

- a. Gravitational force
- b. Cohesive force
- c. **Centrifugal force**
- d. Frictional force

562. A body lying at rest suddenly breaks into two parts of equal masses which starts moving. The parts will move in:

- a. **opposite direction with equal speed**
- b. opposite direction with unequal speed
- c. any direction with equal speed
- d. same direction with equal speed

563. Newton is the unit of:

- A. Work
- B. Energy
- C. **Force**
- D. Acceleration

564. Now a day, most of buildings are made by having at least two layers of walls with a gap in between. Because:

- a. it makes the building stronger
- b. it prevents see page from outside
- c. it protects the building from lightning
- d. **it helps in keeping the inside cooler in summer and warmer in winter**

565. A perfect black body has the unique characteristic feature as:

- a. a good absorber body
- b. a good radiator only
- c. **a good absorber and a good radiator**
- d. Neither an absorber nor radiator

566. Which of the following instruments are used for measuring the speed of aeroplane?

- a. Venturimeter
- b. Orifice plate
- c. Rotameter
- d. **Pilot tube**

567. A geostationary satellite:

- a. revolves about the polar axis
- b. has a time period less than that of the near earth satellite
- c. moves faster than a near earth satellite
- d. **is a stationary in the space**

568. In the electric supply lines in India, which parameter is kept constant?

- a. Current
- b. Voltage
- c. Power
- d. **Frequency**

569. Which one of the following is used to determine the age of human fossils?

- a. Density determination of fossil
- b. softness of the fossil
- c. **Radio-carbon dating**
- d. Water content of the fossil

570. It is an industrial process of producing ammonia by the reaction of nitrogen by the reaction of nitrogen with hydrogen in the presence of a catalyst:

- a. Solvay process
- b. Bayer process
- c. **Haber process**
- d. Bessemer process

571. The mass of the body at the centre of earth is:

- a. Less than at the surface

- b. **Remains constant**
- c. More than the surface
- d. Zero

572. To shield an instrument from an external magnetic field it may be placed in a cabinet made of

- a. Wood
- b. Ebonite
- c. Metal
- d. **diamagnetic substance**

573. The compounds leading to the origin of life were:

- a. Urea and nucleic acid
- b. Amino acids and urea
- c. Proteins and nucleic acid
- d. **Protein and amino acids**

574. The scent sprayer is based on

- a. Carle's law
- b. Boyle's law
- c. Archimede's principle
- d. **Bernoulli's theorem**

575. A person is standing on a rotating stool spreading his arms. What will happen if he suddenly contracts his arm?

- a. His angular momentum increases
- b. His moment of inertia increases
- c. **His moment of inertia decreases**
- d. His angular momentum decreases

576. The enzyme that converts glucose to ethyl alcohol is:

- a. **Invertase**
- b. Maltase
- c. Zymase
- d. Diastase

577. pH value of pure water is :

- a. Less than 7
- b. More than 7

- c. **Equal to 7**
- d. Zero

578. Bamboo is classified as:

- a. Bush
- b. Weed
- c. **Grass**
- d. Tree

579. The solar system is an example of

- a. conservation of energy
- b. conservation of linear momentum
- c. **conservation of angular momentum**
- d. None of these.

580. Which of the following bacteria are said to be very useful in genetic engineering?

- a. Nitrosomonas and Klebsiella
- b. Nitrobacter and Azotobacter
- c. Rhizobium and Diplococcus
- d. **Escherichia and Agrobacterium**

581. In which of the following cases lies the broadcast band of FM?

- a. UHF
- b. VHF
- c. **SHF**
- d. HF

582. Which of the following is not a sexually transmitted disease:

- a. Gonorrhea
- b. AIDS
- c. Chlamydiasis
- d. **Anthrax**

583. How does the pressure cooker work?

- a. Heat cannot escape from cooker
- b. Low pressure inside the cooker rises the boiling point of water
- c. **High pressure inside the cooker rises the boiling point of water**
- d. Steam inside the cooker makes food to cook with ease

584. Post office box is a device for measuring resistance based on the principle of

- a. Potentiometer
- b. **meter bridge**
- c. ohm meter
- d. galvanometer

585. Which waves are used in sonography?

- a. Microwaves
- b. Sound waves
- c. Infrared waves
- d. **Ultrasonic waves**

586. Two thin wooden sticks are floating on the surface of water close to each other. A hot needle touches the water between them. How will the sticks react to it?

- a. They will come closer
- b. **They will move apart**
- c. They will move critically
- d. They will stay as before

587. Which one of the following is not an amorphous substance?

- a. Glass
- b. Polymer
- c. Rubber
- d. **Copper**

588. Why is the machine function well with lubricant?

- a. **Because of surface tension of the lubricant**
- b. Because of viscosity of the lubricant
- c. Lubricant removes moisture
- d. Lubricant induces inertia of the machine

589. The blue colour of sky is due to the phenomenon of

- a. Reflection
- b. Refraction
- c. Dispersion
- d. **Scattering**

590. If one wishes to win a javelin throwing competition, he would have to throw it in which

angle to attain maximum distance?

- a. 30 degree
- b. 60 degree
- c. **45 degree**
- d. 90 degree

591. What enables us to write on the black board with chalk?

- a. Gravity
- b. Cohesion
- c. **Adhesion**
- d. Viscosity

592. Soap helps in the cleaning of cloths because

- a. **it reduces surface tension**
- b. it increases surface tension
- c. it absorbs dirt
- d. of some other reason

593. Which one of the following pairs of rays is electromagnetic in nature?

- a. Alpha rays and X-rays
- b. Alpha rays and cosmic rays
- c. Infrared rays and beta rays
- d. **Infrared rays and X-rays**

594. Which one of the following causes the visibility of sun a little before it rises and a little after it sets below the horizontal line?

- a. **Refraction**
- b. Dispersion
- c. Total internal reflection
- d. Scattering of light

595. During wind storm, the roofs of houses covered with GI Sheets may be blown off because

- a. **wind creates low pressure over the roof**
- b. wind creates high pressure over the roof
- c. roofs are not tightly bound
- d. None of the above

596. When you pull out the plug connected to an electric appliance, you will often observe a spark. To which property of the appliance is this related?

- a. **Resistance**
- b. Inductance
- c. Capacitance
- d. Wattage

597. An n-type and p-type silicon can be obtained by doping pure silicon with

- a. arsenic and phosphorus
- b. indium and aluminum
- c. **phosphorus and indium**
- d. aluminum and boron

598. By which one of the following, an old written material which cannot be read easily, can be read?

- a. alpha rays
- b. gamma rays
- c. X-rays
- d. **IR- rays**

599. A mirror produces magnified erect image of an object. The nature of the mirror is

- a. Convex
- b. **Concave**
- c. Plane
- d. Neither convex nor concave

600. Why are the inner lining of hot water made up of copper?

- a. copper has less heat capacity
- b. copper has high electrical conductivity
- c. copper does not react with steam
- d. **copper is good conductor of both heat and electricity**

601. A coin immersed in water pond appears to be raised when view from the top. What is this due to?

- a. Total internal reflection of light
- b. **Refraction of light**
- c. Scattering of light
- d. Reflection of light

602. Which of the following wavelengths will suffer maximum deviation while passing

through a prism?

- a. Orange
- b. Red
- c. Green
- d. **Violet**

603. Cavitations is a special application property exhibited only by

- a. audible sound
- b. infrasonic
- c. **ultrasonic**
- d. electromagnetic waves

604. A radar beam is sent onto a moving airplane in opposite direction of its approach. In which of these ways it will be affected?

- a. **Its wavelength decreases**
- b. Its wavelength increases
- c. It remains unaffected
- d. none of these

605. Which one of the following can convert the alternating current into the direct current?

- a. Transformer
- b. Motor
- c. Dynamo
- d. **Rectifier**

606. Power of two bulbs are 50 W and 100 W which are connected in series. Then 50 W bulb will

- a. glow brighter
- b. glow less than 100 Watt bulb
- c. **glow dim**
- d. not glow

607. The phenomenon of bursting of hydrogen balloon is based on

- a. **Charles's law**
- b. Boyle's law
- c. Henry's law
- d. Bernoulli's theorem

608. A cyclotron can accelerate

- a. **Ions**
- b. Atoms
- c. Neutrons
- d. gamma rays

609. The image form by an object of a compound microscope is

- a. virtual and enlarged
- b. virtual and diminish
- c. real and diminish
- d. **real and enlarged**

610. Hair of a shaving brush cling together when the brush is removed from water due to

- a. Viscosity
- b. Elasticity
- c. Friction
- d. **surface tension**

611. Which of the following is a ferromagnetic material?

- a. **Nickel**
- b. Quartz
- c. Bismuth
- d. Aluminum

612. A galvanometer is converted into ammeter when we connect

- a. high resistant in series
- b. high resistant in parallel
- c. low resistant in series
- d. **low resistant in parallel**

613. Which one of the following common devices works on the basis of the principle of mutual induction?

- a. Tube light
- b. **Transformer**
- c. LED
- d. Photodiode

614. A table cloth can be pulled from a table without dislodging the dishes. It is because of

- a. Graham's law of diffusion
- b. Archimedes's principle

- c. **Newton's first law**
- d. Newton's second law

615. Which one among the following radiations carries maximum energy?

- a. Infrared
- b. Microwave
- c. **UV-rays**
- d. Radio waves

616. When a ball drops onto the floor it bounces. Why does it bounce?

- a. The floor is perfectly fluid
- b. The floor heats up on impact
- c. Newton's third law Implies that for every action, there is reaction
- d. **The floor exerts a force on the ball during impact**

617. Which one of the following is the weakest force?

- a. **Gravitational force**
- b. Electromagnetic force
- c. Nuclear force
- d. Electrostatic force

618. Which one of the following remains constant while throwing the ball upward?

- a. Force
- b. Kinetic energy
- c. **Acceleration**
- d. Velocity

619. Which of the following device is fully duplex

- a. **Mobile phone**
- b. Walky-talky
- c. Loud Speaker
- d. Radio

620. When we speak into a microphone, what type of vibrations the diaphragm executes?

- a. Free
- b. **Resonant**
- c. Forced
- d. None of these

621. Which one of the following forces lead to separation of the cream from the churned milk?
- Gravitational force
 - Cohesive force
 - Centripetal force
 - Centrifugal force**
622. The volume of the nucleus is proportional to
- atomic number
 - mass number**
 - number of neutron
 - number of proton
623. Which one of the following is correct when a body moving in a circular path with constant speed?
- The body has constant acceleration
 - The body has constant retardation
 - The body has variable acceleration**
 - the body has constant velocity and variable speed
624. Which one is not produced by sound waves in the air?
- Refraction
 - Polarization**
 - Diffraction
 - Reflection
625. Why laser is used in the pipe alignment?
- They are directional in nature**
 - They are coherent
 - They are monochromatic
 - None of the above
626. The velocity of the sound is greatest in
- Water
 - Air
 - Vacuum
 - Metal**
627. Which one of the following phenomena is associated with the fire flies giving cold light in night?

- a. Fluorescence
- b. Phosphorescence
- c. **Chemiluminescence**
- d. Effervescence

628. Who had showed that the electric and magnetic waves are equal in vacuum?

- a. Isaac Newton
- b. **James Clerk Maxwell**
- c. Albert Einstein
- d. Werner Heisenberg

629. The cat survive fall from a height much more than human or any other animal. It is because the cat

- a. has elastic bones
- b. has thick and elastic skin
- c. **can immediately adjust itself to land on all four paws and absorbs the impact of fall by bending**
- d. None of the above

630. The blackboard seems black because it

- a. reflects every colour
- b. **does not reflect any colour**
- c. absorbs black colour
- d. reflects black colour

631. If the radius of the Earth is made $\frac{1}{4}$ th, the duration of an year will become

- a. 8 times
- b. 4 times
- c. **$\frac{1}{8}$ times**
- d. $\frac{1}{4}$ times

632. Mirage is a phenomenon due to

- a. reflection of light
- b. refraction of light
- c. **total internal reflection of light**
- d. total diffraction of light

633. Which one among the following rays has minimum wavelength?

- a. Cosmic rays
- b. **Gamma rays**
- c. X- rays
- d. Ultra-violet rays

634. The common soap used in washing is worked by

- a. **reducing the surface tension of water**
- b. increasing the surface tension of water
- c. reducing the viscosity of water
- d. increasing the viscosity of water

635. Who gave the first evidence of Big-bang theory?

- a. **Edwin Hubble**
- b. Stephen Hawking
- c. S Chandrashekhar
- d. Albert Einstein

636. Which one of the following matter form the core of transformer?

- a. Steel
- b. **Soft Iron**
- c. Tin
- d. Aluminium

637. Which one of the following instruments is used by the submarine sailors to see the objects on the surface?

- a. Telescope
- b. Microscope
- c. Gyroscope
- d. **Periscope**

All The Best !
The END

