

- 1. For which Diode is used?
  - (1) modulation
  - (2) oscillation
  - (3) amplification
  - (4) purification

(SSC Section Officer (Audit) Exam. year 1997)

- **2.** Who among the following developed the technology of underground nuclear explosion?
  - (1) Dr. Homi J. Bhabha
  - (2) Dr. Vikram Sarabhai
  - (3) Dr. Raja Ramanna
  - (4) Dr. P. K. Iyengar

(SSC Section Officer (Audit) Exam. year 1997)

- **3.** Which among the following types of coal produces most heat per unit?
  - (1) Coal
- (2) Lignite
- (3) Anthracite (4) Pit

(SSC Section Officer (Audit) Exam. year 1997)

- **4.** Which among the following waves is used for communication by artificial satellites?
  - (1) Micro waves
  - (2) Radio waves
  - (3) A. M.
  - (4) Frequency of 10<sup>16</sup> series (SSC Section Officer (Audit) Exam. year 1997)
- **5.** What is found in frequency modulation?
  - (1) Fixed frequency
  - (2) Fixed dimension
  - (3) Change in frequency and dimension
  - (4) Change in dimension only (SSC Section Officer (Audit) Exam. year 1997)
- **6.** When the speed of car is doubled, then what will be the braking force of the car to stop it in the same distance?
  - (1) four times (2) two times
  - (3) half (4) one-fourth

(SSC Section Officer (Audit) Exam. year 1997)

- **7.** The dimension of which of the following is the same as that of impulse?
  - (1) Volume
  - (2) Momentum
  - (3) Torque
  - (4) Change in the rate of momentum

(SSC Section Officer (Audit) Exam. year 1997)

- **8.** Which among the following is the fundamental quantity?
  - (1) Volume (2)
    - (2) Time
  - (3) Velocity (4) Force

(SSC Section Officer (Audit) Exam. year 1997)

- **9.** When a ring of metal is heated what happens to its hole?
  - (1) expands
  - (2) contracts
  - (3) it expands or contracts according to its diameter
  - (4) it expands or contracts according to its coefficient of expansion

(SSC Section Officer (Audit) Exam. year 1997)

- **10.** If the diameter of a capillary is doubled, then the rise of water in it will be
  - (1) two times (2) half
  - (3) four times (4) no change

(SSC Section Officer (Audit) Exam. year 1997)

- **11.** Why the needle of iron swims on water surface when it is kept gently?
  - (1) It will remain under the water, when it will displace more water than its weight
  - (2) the density of needle is less than that of water
  - (3) due to surface tension
  - (4) due to its shape

(SSC Section Officer (Audit) Exam. year 1997)

- **12.** The mass of a star is two times the mass of the Sun. How it will come to an end?
  - (1) Neutron Star
  - (2) Black hole
  - (3) White Dwarf
  - (4) Red Giant

(SSC Section Officer (Audit) Exam. year 1997)

- **13.** Rain drops fall from great height. Which among the following statements is true regarding it?
  - (1) they fall with that ultimate velocity, which are different for different droplets
  - (2) they fall with same ultimate velocity

- (3) their velocity increases and they fall with different velocity on the earth
- (4) their velocity increases and they fall with same velocity on the earth

(SSC Section Officer (Audit) Exam. year 1997)

- **14.** On which of the following techniques photostate machine works?
  - (1) Magnetic Image—Making
  - (2) Thermal Image—Making
  - (3) Electrostatic Image—Making
  - (4) Electromagnetic Image— Making

(SSC Section Officer (Audit) Exam. year 1997)

- 15. One Kilowatt hour is equal to—
  - (1) 3.6 Mega Joule
  - (2) 3.8 Mega Joule
  - (3) 3.2 Mega Joule
  - (4) 4.0 Mega Joule

(SSC Section Officer (Audit) Exam. year 1997)

- **16.** What is the minimum escape velocity of rocket to be launched into space?
  - (1) 5 Km/Sec. (2) 6 Km/Sec.
  - (3) 11 Km/Sec.(4) 15 Km/Sec.

(SSC Section Officer (Audit) Exam. year 1997)

- **17.** Which of the following statements is true when we see 'rainbow'?
  - (1) We face sun and raindrops
  - (2) The Sun remains behind us and we face raindrops
  - (3) In light rainfall, we face Sun
  - (4) The sky remains clear and the sun is at lower position in the sky

(SSC Section Officer (Audit) Exam. year 1997)

- **18.** How much calorie of energy is released by a boiled egg?
  - (1) 40 (2) 50
  - (3) 60 (4) 77

(SSC Section Officer (Audit) Exam. year 1997)

#### | PHYSICS

- **19.** The splitting of different colours of light in a prism is:
  - (1) Reflection of light
  - (2) Disperson of light
  - (3) Diffraction of light
  - (4) Refraction of light

(SSC Combined Graduate Level Prelim Exam. 04.07.1999 (First Sitting)

- 20. A boat will submerge when it displaces water equal to its own: (1) volume (2) weight
  - (3) surface area (4) density

(SSC Combined Graduate Level Prelim Exam. 04.07.1999 (Second Sitting)

- 21. Surface tension in a liquid is due to :
  - (1) Adhesive force between molecules
  - (2) Cohesive force between molecules
  - (3) Gravitational force between molecules
  - (4) Electrical force between molecules.

(SSC Combined Graduate Level Prelim Exam. 27.02.2000 (First Sitting)

- 22. A circular plate, a cube and a sphere, all made up of same material and having the same mass, are heated to 300°C and left in a room. Which of them will have the slowest rate of cooling?
  - (1) Circular plate
  - (2) Cube
  - (3) Sphere
  - (4) All will cool at the same rate (SSC Combined Graduate Level Prelim Exam. 27.02.2000 (First Sitting)
- **23.** Optic fibres are used in :
  - (1) CAT scans
  - (2) X-ray photos
  - (3) Ultrasound scans
  - (4) Endoscopy

(SSC Combined Graduate Level Prelim Exam. 27.02.2000 (First Sitting)

- 24. Two waves, each of amplitude 1.5 mm and frequency 10 Hz, are travelling in opposite direction with a speed of 20 mm/s. The distance in mm between adjacent nodes is:
  - (1) 1.0
  - (2) 1.2 (3) 1.5 (4) 2.0

(SSC Combined Graduate Level Prelim Exam. 27.02.2000 (Second Sitting)

- **25.** The snow on the mountains does NOT melt all at once when it is heated by the sun because:
  - (1) it becomes very hard
  - (2) it reflects most of the heat from the sun
  - (3) it has a low specific heat capacity
  - (4) it has a high latent heat of fusion

(SSC Combined Graduate Level Prelim Exam. 27.02.2000 (Second Sitting)

- **26.** A person standing on a railway platform listens to the whistles of arriving and departing trains. The whistle heard is
  - (1) the same in both cases in all respects
  - of higher intensity when train arrives
  - (3) of higher pitch when train arrives
  - (4) of higher pitch when train departs

(SSC Section Officer (Audit) Exam. 09.09.2001)

- **27.** Holography is a technique of
  - (1) recording a permanent. sharp two diimensional black and white or multicolour photograph
  - (2) recording a permanent three dimensional multicolour photograph
  - (3) recording a permanent three dimensional black and white photograph
  - (4) recording a permanent three dimensional photograph of a given single colour or a multicolour

(SSC Section Officer (Audit) Exam. 09.09.2001)

- 28. The velocity of sound in moist air is more than in dry air because the moist air has
  - (1) less density than dry air.
  - (2) less pressure than dry air.
  - (3) more pressure than dry air.
  - (4) more density than dry air.

(SSC CGL Tier-I Exam, 09.08.2015 (Ist Sitting) TF No. 1443088)

- 29. An ice block with a piece of lead embeded in it floats in water. If ice melts the water level
  - (1) Rises (2) Falls
  - (3) Remains same
  - (4) Falls first and then rises

(SSC Section Officer (Audit) Exam. 09.09.2001)

- **30.** The velocity of heat radiation in vacuum is
  - (1) Equal to that of light
  - (2) Less than that of light
  - (3) Greater than that of light
  - (4) Equal to that of sound

(SSC Section Officer (Audit) Exam. 09.09.2001)

- **31.** The plastic material commonly used for making gear wheels is
  - (1) Polyesters (2) Nylons
  - (3) Bakelit (4) Polystyrene (SSC Section Officer (Audit) Exam. 09.09.2001)
- **32.** Ultra violet radiations of the Sun do not reach the earth because. earth's atmosphere is surrounded by
  - (1) Carbon dioxide
  - (2) Ammonia
  - (3) Chlorine (4) Ozone (SSC Section Officer (Audit) Exam. 09.09.2001)

**33.** "Curie" is unit of:

- (1) Radioactivity
- (2) Temperature
- (3) Heat
- (4) Energy

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (First Sitting)

- **34.** Which of the following is used in oven?
  - (2) UV rays (1) X-rays
  - (3) Microwaves (4) Radiowaves (SSC Combined Graduate Level Prelim Exam. 24.02.2002 (First Sitting)
- **35.** When heated from  $0^0$  to  $10^0$ C volume of a given mass of water will:
  - (1) Increase gradually
  - (2) Decrease gradually
  - (3) Increase and then will decrease
  - (4) Decrease and then will increase

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (First Sitting)

- **36.** Energy is continuously created in the sun due to:
  - (1) nuclear fusion
  - (2) nuclear fission
  - (3) radioactivity
  - (4) artificial radioactivity

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Second Sitting)

- **37.** In electronics what comes under tank circuit?
  - (1) Resistance and capacity
  - (2) Resistance and inductance
  - (3) Capacity and inductance
  - (4) Resistance, capacity and inductance

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Middle Zone)

- **38.** Coolis tube is used to produce
  - (1) Radio waves
  - (2) Micro waves
  - (3) X-rays
  - (4) Gama rays

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Middle Zone)

- **39.** Which of the following is used for regulated electric supply?
  - (1) Zener diode
  - (2) Junction diode
  - (3) Gun diode
  - (4) Tunnel diode

(SSC Combined Graduate Level Prelim Exam. 24.02.2002 (Middle Zone)

- **40.** The source of the Sun's energy is the process of
  - (1) Photoelectric emission
  - (2) Nuclear fission
  - (3) Nuclear fusion
  - (4) Thermionic emission

(SSC CPO Sub-Inspector Exam. 12.01.2003)

- **41.** Gamma rays can cause
  - (1) gene mutation
  - (2) sneezing
  - (3) burning (4) fever

(SSC CPO Sub-Inspector Exam. 12.01.2003)

- **42.** The substance which conducts current in the solid state is
  - (1) diamond (2) graphite
  - (3) iodine
  - (4) sodium chloride

(SSC CPO Sub-Inspector Exam. 12.01.2003)

- **43.** Which set of conditions represents the easiest way to liquify a gas?
  - (1) Low temperature and high pressure
  - (2) High temperature and low pressure
  - (3) Low temperature and low pressure
  - (4) High temperature and high pressure

(SSC CPO Sub-Inspector Exam. 12.01.2003)

- **44.** What is colour of light related to?
  - (1) Amplitude (2) Frequency
  - (3) Quality (4) Velocity (SSC Combined Graduate Level Prelim Exam. 11.05.2003 (First Sitting)
- **45.** What principle/law explains the working of the hydraulic brakes in automobiles?
  - (1) Bernoulli's law
  - (2) Posieulle's principle
  - (3) Pascal's law
  - (4) Archimedes' principle (SSC Combined Graduate Level Prelim Exam. 11.05.2003 (First Sitting)
- **46.** The best conductor of heat among the following is
  - (1) alcohol (2) mercury
  - (3) ether (4) water

(SSC Combined Graduate Level Prelim Exam. 11.05.2003 (Second Sitting)

- **47.** What is viewed through an electron microscope?
  - (1) Electrons and other elementary particles
  - (2) Structure of bacteria and viruses
  - (3) Inside of human stomach
  - (4) Inside of the human eye (SSC Combined Graduate Level Prelim Exam. 11.05.2003 (Second Sitting)
- **48.** What apparatus is used to locate a submerged object?
  - (1) Radar (2) Sonar
  - (3) Quasar (4) Pulsar

(SSC Combined Graduate Level Prelim Exam. 11.05.2003 (Second Sitting)

- **49.** The instrument which uses sound waves to measure the depth of oceans is
  - (1) Radar (2) Sonar
  - (3) Altimeter (4) Venturimeter (SSC Combined Graduate Level Prelim Exam. 11.05.2003 (Second Sitting)

- **50.** Which combination of colour is the most convenient during day and night time?
  - (1) Organe and blue
  - (2) White and black
  - (3) Yellow and blue
  - (4) Red and green

(SSC CPO Sub-Inspector Exam. 07.09.2003)

- **51.** The instrument that measures and records the relative humidity of air is
  - (1) Hydrometer (2) Hygrometer
  - (3) Lactometer (4) Barometer

(SSC CPO Sub-Inspector Exam. 07.09.2003)

- **52.** The shape of our milky way galaxy is
  - (1) circular (2) elliptical
  - (3) spiral
  - (4) None of the above

(SSC CPO Sub-Inspector Exam. 07.09.2003)

- **53.** The different colours of different stars are due to the variation of
  - (1) temperature
  - (2) pressure
  - (3) density
  - (4) radiation from them

(SSC CPO Sub-Inspector Exam. 07.09.2003)

- **54.** The fundamental scientific principle in the operation of battery is
  - (1) acid-base interaction
  - (2) dialysis
  - (3) dissociation of electrolytes
  - (4) oxidation-reduction

(SSC CPO Sub-Inspector Exam. 07.09.2003)

- **55.** Instrument used to measure the force and velocity of the wind is
  - (1) Ammeter (2) Anemometer
  - (3) Altimeter (4) Audiometer (SSC CPO Sub-Inspector Exam. 07.09.2003)
- **56.** Wollen clothes keep the body warm because
  - (1) Wool increases the temperature of the body
  - (2) Wool is a bad conductor
  - (3) Wool absorbs radiant heat from outer objects
  - (4) Wool rejects heat from the outer objects

(SSC Section Officer (Commercial Audit) Exam. 16.11.2003)

- **57.** If the length of a simple pendulum is halved then its period of oscillation is
  - (1) doubled
  - (2) halved
  - (3) increased by a factor  $\sqrt{2}$
  - (4) decreased by a factor  $\sqrt{2}$ (SSC Section Officer (Commercial Audit) Exam. 16.11.2003)
- **58.** Mist is caused by
  - (1) dry ice
  - (2) ice at low temperature
  - (3) water vapour at low temperature
  - (4) carbon-monoxide in solid form

(SSC Section Officer (Commercial Audit) Exam. 16.11.2003)

- **59.** While catching a ball, a player pulls down his hands to lower the-
  - (1) force (2) momentum
  - (3) impulse (4) catching time (SSC Section Officer (Audit) Exam. 14.12.2003)
- 60. When a barometer reading suddenly recedes, it indicates that climate-
  - (1) will be very warm
  - (2) will be extremely stormy
  - (3) will remain cold
  - (4) incessant rain for at least 48 hours

(SSC Section Officer (Audit) Exam. 14.12.2003)

- **61.** A particle dropped from the top of a tower uniformly falls on ground at a distance which is equal to the height of tower. Which of the following paths will be traversed by the particle?
  - (1) Circle (2) Parabolic
  - (3) Great circle
  - (4) Hyper-parabolic

(SSC Section Officer (Audit) Exam. 14.12.2003)

- 62. Electron microscope was invented by
  - (1) Knoll and Ruska
  - (2) Robert Koch
  - (3) Leeuwenhock
  - (4) C.P. Swanson

(SSC Combined Graduate Level Prelim Exam. 08.02.2004 (First Sitting)

- **63.** When a bottle of scent is kept open in a corner of a room its odour is felt in all parts of the room. This is due to the phenomenon of:
  - (1) evaporation (2) vaporisation
  - (4) sublimation (3) diffusion (SSC Combined Graduate Level Prelim Exam. 08.02.2004 (First Sitting)

- **64.** Clear nights are colder than cloudy nights because of
  - (1) conduction
  - condensation
  - (3) radiation
  - (4) insolation

(SSC Combined Graduate Level Prelim Exam. 08.02.2004 (First Sitting)

- **65.** Speed of sound is the greatest in:
  - (1) Water
- (2) Air
- (3) Glass (4) Glycerine (SSC Combined Graduate Level Prelim Exam. 08.02.2004

(First Sitting)

- **66.** A gas thermometer is more sensitive than a liquid thermometer because a gas:
  - (1) is lighter than liquid
  - (2) expands more than a liquid
  - (3) is easy to obtain
  - (4) does not change state easily (SSC Combined Graduate Level Prelim Exam. 08.02.2004 (First Sitting)
- **67.** Which one of the following is used for sun glasses?
  - (1) Pyrex glass
  - (2) Flint glass
  - (3) Crooks glass
  - (4) Crystal glass

(SSC Combined Graduate Level Prelim Exam. 08.02.2004

(First Sitting)

- **68.** The speed of light with the rise in the temperature of the medium:
  - (1) Increases
  - (2) Decreases
  - (3) Remains unaltered
  - (4) Drops suddenly

(SSC Combined Graduate Level Prelim Exam. 08.02.2004 (Second Sitting)

- 69. Clothes keep us warm in winter because they:
  - (1) supply heat
  - (2) do not radiate heat
  - (3) prevent air from contacting the body
  - (4) prevent the heat of the body from escaping

(SSC Combined Graduate Level Prelim Exam. 08.02.2004 (Second Sitting)

- 70. In a refrigerator what produces the cooling?
  - (1) The ice which deposits on the freezer
  - (2) The sudden expansion of a compressed gas
  - (3) The evaporation of a volatile liquid
  - (4) None of these

(SSC Combined Graduate Level Prelim Exam. 08.02.2004 (Second Sitting)

- **71.** Why are we able to hear short wave broadcasts better than long wave broadcasts?
  - (1) Short waves are more energetic than long waves.
  - (2) Short waves are unaffected by atmospheric disturbances.
  - Short wave broadcasts are made by nearby radio stations.
  - (4) By convention, short waves are meant for long distances, whereas long waves are reserved for short distances. (SSC Combined Graduate Level Prelim Exam. 08.02.2004
- 72. When the barometer reading dips suddenly, it is an indication of
  - (1) Hot weather
  - (2) Calm weather
  - (3) Storm
  - (4) Dry weather

(SSC CPO Sub-Inspector Exam. 05.09.2004)

(Second Sitting)

- **73.** Good conductor of electricity is
  - (1) dry air (2) paper
  - (3) kerosene (4) graphite

(SSC CPO Sub-Inspector Exam. 05.09.2004)

- 74. Which of the following is a nonrenewable source of energy?
  - (1) Biogas (2) Solar
  - (3) Wind (4) Coal

(SSC CPO Sub-Inspector Exam. 05.09.2004)

- 75. Solar energy is converted into chemical energy during
  - (1) Transpiration
  - (2) Photosynthesis
  - (3) Diffusion
  - (4) Osmosis

(SSC CPO Sub-Inspector Exam. 05.09.2004)

- **76.** The term 'equinox' means
  - (1) The path which the Earth takes around the Sun
  - (2) The axis of the Earth around which it rotates
  - (3) When the day and night are of equal duration
  - (4) The time when the Sun seems to be going round and round in the sky in the Arctic but does not go below the horizon

(SSC CPO Sub- Inspector Exam. 05.09.2004)

- **77.** Heat from the Sun reaches the Earth by
  - (1) Reflection (2) Conduction
  - (3) Radiation (4) Convection

(SSC CPO Sub- Inspector Exam. 05.09.2004)

- **78.** In which of the following cases, kinetic energy is being used in performing work?
  - (1) Paddling the bicycle to cover a distance
  - (2) Driving a car to cover a distance
  - (3) Wind mill grinding wheat grain
  - (4) Rowing a boat in the lake (SSC CPO Sub-Inspector Exam. 05.09.2004)
- **79.** Which of the following parts of the sunlight makes the solar cooker hot?
  - (1) Ultra violet (2) Red light
  - (3) Infra red (4) Cosmic rays (SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)
- **80.** If the velocity-time graph of a particle is represented by y = mt + c, then the particle is moving with
  - (1) constant speed
  - (2) constant velocity
  - (3) constant acceleration
  - (4) varying acceleration

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)

- **81.** Which of the following occurred first ?
  - (1) Albert Einstein propounded the General Theory of Relativity
  - (2) Max Planck unveiled the Quantum Theory
  - (3) Guglielmo Marconi sent out the first wireless signals
  - (4) Wright Brothers successfully flew an aircraft

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)

- **82.** A passenger standing in a bus is thrown outward when the bus takes a sudden turn. This happens due to
  - (1) Outward pull on him
  - (2) Inertia of motion
  - (3) Change in momentum
  - (4) Change in acceleration (SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)
- **83.** When pressure is increased the melting point of ice
  - (1) increases
  - (2) does not change
  - (3) decreases
  - (4) depends on the impurities in the ice

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)

- **84.** Longitudinal waves cannot travel through
  - (1) Vacuum (2) Solid
  - (3) Liquid (4) Gas

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)

- **85.** Electrostatic precipitator is used to control the pollution of
  - (1) air (2
- (2) water
  - (3) noise (4) thermal

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 05.12.2004)

- **86.** Tungsten is used for the manufacture of the filament of an electric bulb, because
  - (1) It is a good conductor
  - (2) It is economical
  - (3) It is malleable
  - (4) It has a very high melting point

(SSC CPO Sub-Inspector Exam. 26.05.2005)

- **87.** What is the wavelength of visible spectrum?
  - (1)  $1300 \text{ A}^{\circ} 3000 \text{ A}^{\circ}$
  - (2)  $3900 \text{ A}^{\circ} 7600 \text{ A}^{\circ}$
  - (3)  $7800 \text{ A}^{\circ} 8000 \text{ A}^{\circ}$
  - (4)  $8500 \text{ A}^{\circ} 9800 \text{ A}^{\circ}$

(SSC CPO Sub-Inspector Exam. 26.05.2005)

- **88.** Who measured the velocity of light first?
  - (1) Galileo (2) Newton
  - (3) Romer (4) Einstein

(SSC CPO Sub-Inspector Exam. 26.05.2005)

- **89.** When a vehicle passes, TV reception gets distorted. This is because
  - (1) metal reflects radiowaves
  - (2) spark plug creates electromagnetic disturbances
  - (3) vehicle pollution affects the performance of the TV components
  - (4) modern vehicles use electroignition system

(SSC CPO Sub-Inspector Exam. 26.05.2005)

- **90.** The energy emitted by the Sun is due to
  - (1) Chemical reaction
  - (2) Nuclear fission
  - (3) Nuclear fusion
  - (4) All of the above

(SSC CPO Sub-Inspector Exam. 26.05.2005)

- 91. The sky appears blue because of
  - (1) Atmospheric water vapour
  - (2) Scattering of light
  - (3) Reflection on sea water
  - (4) Emision of blue wavelength by the sun

(SSC Section Officer (Audit) Exam. 05.06.2005)

- **92.** Dynamo is a device for converting
  - (1) Heat energy into electrical energy
  - (2) Mechanical energy into electrical energy
  - (3) Magnetic energy into electrical energy
  - (4) Chemical energy into electrical energy

(SSC Section Officer (Audit) Exam. 05.06.2005)

- **93.** Oil rises up the wick in a lamp because
  - (1) Oil is very light
  - (2) Of the diffusion of oil through the wick
  - (3) Of the surface tension phenomenon
  - (4) Of the capillary action phenomenon

(SSC Section Officer (Audit) Exam. 05.06.2005)

- **94.** In the atmosphere ultraviolet rays are absorbed by
  - (1) Oxygen (2) Nitrogen
  - (3) Ozone (4) Helium

(SSC Section Officer (Audit) Exam. 05.06.2005)

- **95.** Which of the following metals is used for the manufacture of heating elements provided in electric iron?
  - (1) Nickel (2) Chromium
  - (3) Nichrome (4) Tungsten (SSC Statistical Investigators Grade-IV Exam. 31.07.2005)
- **96.** An electron microscope gives higher magnification than an optical microscope, because:
  - (1) it uses more powerful lenses
  - (2) the velocity of electron is smaller than that of visible light
  - (3) the electrons have more energy than the light particles
  - (4) the wavelength of electrons is smaller as compared to the wavelength of visible light

(SSC Statistical Investigators Grade-IV Exam. 31.07.2005)

- **97.** The hydraulic brakes used in automobiles is a direct application of :
  - (1) Archimedes' principle
  - (2) Toricellian law
  - (3) Bernoulli's theorem
  - (4) Pascal's law

(SSC Statistical Investigators Grade-IV Exam. 31.07.2005)

- **98.** Where are mesons found?
  - (1) Cosmic rays
  - (2) X-rays
  - (3) Gamma rays
  - (4) Laser beam

(SSC Section Officer (Commercial Audit) Exam. 25.09.2005)

- **99.** Plants are dried up in winter due to frost because
  - (1) Evaporation does not take place
  - (2) Photosynthesis does not take place at such low temperature
  - (3) Respiration does not take place at low temperature
  - (4) There is mechanical loss of tissues and drought condition prevails

(SSC Section Officer (Commercial Audit) Exam. 25.09.2005)

- **100.** For a body moving with non-uniform velocity and uniform acceleration
  - (1) Displacement Time graph is linear
  - (2) Displacement Time graph is non-linear

- (3) Velocity Time graph is nonlinear
- (4) Velocity Time graph is linear

(SSC Section Officer (Commercial Audit) Exam. 25.09.2005)

- **101.** The fourth state of matter is known as
  - (1) Gas (2) Vapour
  - (3) Plasma (4) Electrons

(SSC Combined Graduate Level Prelim Exam. 13.11.2005 (First Sitting)

- 102. Lamberts law is related to
  - (1) Reflection
  - (2) Refraction
  - (3) Interference
  - (4) Illumination

(SSC Combined Graduate Level Prelim Exam. 13.11.2005 (First Sitting)

- **103.** Which of the following laws validates the statement that matter can neither be created nor destroyed?
  - (1) Law of conservation of energy
  - (2) Le Chatelier's Principle
  - (3) Law of conservation of mass
  - (4) Law of osmosis

(SSC Combined Graduate Level Prelim Exam. 13.11.2005 (First Sitting)

- 104. Decibel is the unit used for
  - (1) Speed of light
  - (2) Intensity of heat
  - (3) Intensity of sound
  - (4) Radio wave frequency (SSC Combined Graduate Level Prelim Exam. 13.11.2005

(First Sitting)

- **105.** The term 'Isoneph' indicates the lines of equal
  - (1) cloudiness (2) salinity
  - (3) rainfall (4) pressure (SSC Combined Graduate Level Prelim Exam. 13.11.2005 (First Sitting)
- **106.** The atmospheric layer reflecting radio waves is called
  - (1) Ozonosphere
  - (2) Ionosphere
  - (3) Stratosphere
  - (4) Mesosphere

(SSC Combined Graduate Level Prelim Exam. 13.11.2005 (Second Sitting)

- **107.** 'Cryogenics' is a science dealing with
  - (1) high temperatures
  - (2) low temperatures
  - (3) friction and wear
  - (4) growth of crystals (SSC Combined Graduate Level Prelim Exam. 13.11.2005 (Second Sitting)
- **108.** The mass-energy relation is the outcome of
  - (1) quantum theory
  - (2) general theory of relativity
  - (3) field theory of energy
  - (4) special theory of relativity (SSC Combined Graduate Level Prelim Exam. 13.11.2005 (Second Sitting)
- **109.** Which of the following are used for accurately measuring very small time intervals?
  - (1) Pulsars
  - (2) Quartz clocks
  - (3) Atomic clocks
  - (4) White dwarfs

(SSC Combined Graduate Level Prelim Exam. 13.11.2005 (Second Sitting)

- **110.** Why does bleeding occur through the nose in high mountainous regions?
  - (1) The pressure of blood in capillaries is greater than the outside pressure
  - (2) The pressure at high altitudes is greater than that on the plains
  - (3) The blood pressure of a person increases at high altitudes
  - (4) The blood pressure fluctuates and finally decreases drastically

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- **111.** Danger signals are generally red as red light
  - (1) is least bright
  - (2) undergoes least deviation
  - (3) has lowest velocity
  - (4) gives comfort to eye

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- $\textbf{112.} \ \ A simple microscope consists of:$ 
  - (1) a short focus convex lens
  - (2) a long focus convex lens
  - (3) a short focus concave lens
  - (4) a long focus concave lens (SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

# PHYSICS =

- **113.** An oil drop spreads over water because
  - (1) oil is lighter than water
  - (2) oil is more viscous
  - (3) oil does not mix with water
  - (4) surface tension of oil is much smaller than that of water (SSC Tax Assistant (Income Tax &

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- **114.** The device which converts AC to DC is
  - (1) Oscillator (2) Amplifier
  - (3) Rectifier (4) None of these (SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)
- 115. Knot is a measure of
  - (1) The speed of ship
  - (2) The curvature of spherical objects
  - (3) Solar radiation
  - (4) Intensity of earthquake shock

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- **116.** When the main switch of the house is put off it disconnects the
  - (1) live wire only
  - (2) live wire and the earth wire
  - (3) live wire and the neutral wire
  - (4) earth wire and the neutral wire

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- **117.** Heat from the sun reaches earth by the process of
  - (1) Conduction
  - (2) Convection
  - (3) Radiation
  - (4) All of the above

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)

- **118.** Boyle's law is a relationship between
  - (1) Pressure and volume
  - (2) Volume and temperature
  - (3) Volume and density
  - (4) Pressure and temperature (SSC Tax Assistant (Income Tax & Central Excise) Exam. 11.12.2005)
- **119.** Which of the following produces more severe burns?
  - (1) Boiling water
  - (2) Hot water
  - (3) Steam
  - (4) Melting iceberg

(SSC CPO Sub-Inspector Exam. 03.09.2006)

- **120.** The sudden fall of atmospheric pressure indicates
  - (1) fair weather (2) storm
  - (3) rain (4)

(4) cold weather (SSC CPO Sub-Inspector

Exam. 03.09.2006)

- **121.** Which of the following pairs of physical quantities have the same dimensions?
  - (1) Force and Power
  - (2) Work and Power
  - (3) Work and Energy
  - (4) Momentum and Power

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (Ist Sitting) TF No. 1375232)

- 122. Magnetism in materials is due to
  - (1) electrons at rest
  - (2) circular motion of electrons
  - (3) protons at rest
  - (4) all neutrons at rest

(SSC CPO Sub-Inspector Exam. 03.09.2006)

- **123.** 'Short-sight' in human eye can be corrected by using proper
  - (1) convex lens
  - (2) concave lens
  - (3) cylindrical lens
  - (4) bifocal lens

(SSC CPO Sub-Inspector Exam. 03.09.2006)

- **124.** What is the reason for twinkling of stars?
  - (1) Dispersion of light
  - (2) Total internal reflection
  - (3) Atmospheric reflection
  - (4) Atmospheric refraction

(SSC CPO Sub-Inspector Exam. 03.09.2006)

- **125.** The instrument for measuring intensity of earthquakes is called
  - (1) Ediograph (2) Pantagraph
  - (3) Ergograph (4) Seismograph (SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)
- **126.** Which one of the following animals can hear ultrasonic sound?
  - (1) Rat
- (2) Squirrel
- (3) Cat
- (4) Bat

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **127.** The source of the sun's energy is the process of
  - (1) photoelectric emission
  - (2) nuclear fission
  - (3) nuclear fusion
  - (4) thermionic emission

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- 128. A multimeter is used to measure
  - (1) current
  - (2) voltage
  - (3) resistance
  - (4) All of the above

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **129.** Which of the following is used to split white light into different colours?
  - (1) Glass slab
  - (2) Convex lens
  - (3) Concave lens
  - (4) Prism

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **130.** Nuclear reactors used to produce electricity are based on
  - (1) nuclear fission
  - (2) nuclear fusion
  - (3) cold fusion
  - (4) superconductivity

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **131.** Submerged objects can be located using
  - (1) radar (2) sonar
  - (3) quasar (4) pulsar (SSC Tax Assistant (Income Tax &

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **132.** Which one of the following instruments is used to study dispersion of light?
  - (1) Microscope
  - (2) Telescope
  - (3) Spectrometer
  - (4) Photometer

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **133.** A fountain pen works on the principle of
  - (1) flow of liquids from higher to lower potential
  - (2) capillary action
  - (3) Bernoulli's principle
  - (4) Viscosity of liquids

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **134.** Pycnometer is an instrument used to measure the
  - (1) density
  - (2) intensity of solar radiation
  - (3) intensity of earthquake
  - (4) high temperatures

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- **135.** Fibre optics work on the principle of
  - (1) scattering of light
  - (2) total internal absorption
  - (3) total internal reflection
  - (4) optical rotation

(SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)

- 136. A decibel is
  - (1) a musical instrument
  - (2) the wavelength of noise
  - (3) a musical note
  - (4) a measure of sound level (SSC Tax Assistant (Income Tax & Central Excise Exam. 12.11.2006)
- **137.** Remote-sensing device has an inbuilt source of
  - (1) X-ray
  - (2) g-ray
  - (3) ultraviolet ray
  - (4) infrared ray

(SSC Section Officer (Commercial Audit Exam. 26.11.2006 (Second Sitting)

- **138.** The atmosphere is heated mainly by
  - (1) Insolation
  - (2) Conduction
  - (3) Radiation
  - (4) Convection

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **139.** A device used for converting a.c. into d.c. is called
  - (1) transformer
  - (2) recticfier
  - (3) induction coil
  - (4) dvnamo

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **140.** Energy of Ultraviolet rays is great than
  - (1) Infra-red rays
  - (2) Gamma rays
  - (3) X-rays
  - (4) Cosmic rays

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **141.** The instrument used to measure the speed of the wind is
  - (1) Altimeter
  - (2) Anemometer
  - (3) Chronometer
  - (4) Dosimeter

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **142.** Who defined the law of gravitation?
  - (1) Newton (2) Archimedes
  - (3) Galileo (4) Faraday (SSC Section Officer (Audit)

Exam. 10.12.2006)

- **143.** The metal used to make lightning conductors is
  - (1) Iron (2) Aluminium
  - (3) Copper (4) Zinc

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **144.** A hydrogen balloon floats up because of
  - (1) air pressure decreases with decrease in height
  - (2) air pressure decreases with decrease in weight
  - (3) weight of the balloon is less than the weight of air displaced by it.
  - (4) the pressure inside the balloon is more than the pressure outside it

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **145.** In a rechargeable cell what kind of energy is stored within the cell?
  - (1) Electrical energy
  - (2) Potential energy
  - (3) Chemical energy
  - (4) Kinetic energy

(SSC Section Officer (Audit) Exam. 10.12.2006)

- **146.** Which one of the following lenses should be used to correct the defect of astigmatism?
  - (1) Cylindrical lens
  - (2) Concave lens
  - (3) Convex lens
  - (4) Bifocal lens

(SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Frist Sitting)

- **147.** Superconductors are those ele-
  - (1) Whose conductivity is intermediate between metals and insulators
  - (2) Whose resistance falls almost to zero at very low temperatures
  - (3) which turn into insulators at very low temperatures
  - (4) which conduct electricity only at super-high temperatures (SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Frist Sitting)

- **148.** In a Laser (say neon laser) all the atoms emit the light waves of
  - (1) Same frequency
  - (2) Same amplitude
  - (3) Same phase
  - (4) All of the above

(SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Second Sitting)

- **149.** Which of the following has got more heat capacity?
  - (1) Iron piece (2) Water
  - (3) Gold piece(4) Benzene

(SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Second Sitting)

- **150.** If the temperature of a place increases suddenly, the relative humidity
  - (1) Increases
  - (2) Decreases
  - (3) Remains constant
  - (4) Fluctuates

(SSC Combined Graduate Level Prelim Exam. 04.02.2007 (Second Sitting)

- **151.** Fleming's right hand rule is used to find the direction of the
  - (1) Alternate current
  - (2) Direct current
  - (3) Induced current
  - (4) Actual current

(SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3)

- **152.** What is the full form of 'AM' regarding radio broadcasting?
  - (1) Amplitude Movement
  - (2) Anywhere Movement
  - (3) Amplitude Matching(4) Amplitude Modulation

(SSC Section Officer (Commercial Audit) Exam. 30.09.2007 (Second Sitting)

- **153.** Which colour is the complementary colour of yellow?
  - (1) Blue (2) Green
  - (3) Orange (4) Red

(SSC Section Officer (Commercial Audit) Exam. 30.09.2007 (Second Sitting)

- **154.** During washing of clothes, we use indigo due to its
  - (1) better cleaning action
  - (2) proper pigmental composition
  - (3) high glorious nature
  - (4) very low cost

(SSC Section Officer (Commercial Audit) Exam. 30.09.2007 (Second Sitting)

- **155.** The energy stored in a watch spring is
  - (1) kinetic energy
  - (2) potential energy
  - (3) heat energy
  - (4) chemical energy

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **156.** The sensation of weightlessness in a spacecraft in an orbit is due to the
  - (1) absence of gravity outside
  - (2) acceleration in the orbit which is equal to the acceleration due to gravity outside
  - (3) presence of gravity outside but not inside the spacecraft
  - (4) fact that spacecraft in the orbit has no energy

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- 157. 'Therm' is the unit of
  - (1) power
- (2) heat
- (3) light (4) distance

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **158.** Newton's first law of motion gives the concept of
  - (1) energy
  - (2) work
  - (3) momentum
  - (4) inertia

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **159.** A pond of water appears less deep due to
  - (1) reflection (2) diffraction
  - (3) refraction (4) polarisation (SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)
- **160.** The oldest type of energy known to man is
  - (1) wind power
  - (2) solar power
  - (3) tidal energy
  - (4) geothermal energy

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **161.** Energy that is produced commercially from coal is called
  - (1) Light energy
  - (2) Kinetic energy
  - (3) Thermal energy
  - (4) Potential energy

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **162.** We always see the same face of the moon, because
  - (1) it is smaller than the earth
  - (2) it revolves on its axis in a direction opposite to that of the earth
  - (3) it takes equal time for revolution around the earth and rotation on its own axis
  - (4) it rotates at the same speed as the earth around the sun

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **163.** Water pipes in hilly areas often burst on a cold frosty night, because
  - (1) the material of which pipes are made contracts due to cold and so breaks
  - (2) water in the pipes freezes and on freezing water expands, so pipes break
  - (3) frost makes the pipes rusty, so they break
  - (4) None of these

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **164.** A parachute descends slowly whereas a stone dropped from the same height falls rapidly, because
  - (1) stone is heavier than parachute
  - (2) special mechanisms are present in parachute
  - (3) a parachute has a larger surface area and air resistance is more
  - (4) None of these

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)

- **165.** Which of the following instruments is used to measure humidity?
  - (1) Kata Thermometer
  - (2) Anemometer
  - (3) Sling Psychrometer
  - (4) Clinical Thermometer (SSC Tax Assistant (Income Tax & Central Excise) Exam. 25.11.2007)
- **166.** The type of mirrors used in the headlamp of cars is
  - (1) parabolic concave
  - (2) plane
  - (3) spherical convex
  - (4) cylindrical concave

(SSC CPO Sub-Inspector Exam. 16.12.2007)

- **167.** The reason for a swimming pool to appear less deep than the actual depth is
  - (1) refraction
  - (2) light scattering
  - (3) reflection (4) interference (SSC CPO Sub-Inspector

Exam. 16.12.2007)

current is convert-

- **168.** Alternating current is converted into direct current by a
  - (1) transformer (2) dynamo
  - (3) oscillator (4) rectifier

(SSC CPO Sub-Inspector Exam. 16.12.2007)

- **169.** Which of the following is most elastic?
  - (1) Rubber (2) Wet clay
  - (3) Steel (4) Plastic

(SSC Section Officer (Audit) Exam. 06.01.2008)

- **170.** When a person walking in bright Sunlight enters a dark room, he is not able to see clearly for a little while because
  - (1) the eye muscles cannot immediately adjust the focal length of the eye lens.
  - (2) the retina retains the bright images for sometime and becomes momentarily insensitive.
  - (3) the iris is unable to contract the pupil immediately.
  - (4) the iris is unable to dilate the pupil immediately.

(SSC Section Officer (Audit) Exam. 06.01.2008)

- **171.** The swing of a spinning cricket ball in air can be explained on the basis of
  - (1) Sudden change in wind direction.
  - (2) Buoyancy of air.
  - (3) Turbulence caused by wind.
  - (4) Bernoulli's theorem.

(SSC Section Officer (Audit) Exam. 06.01.2008)

- **172.** Why two thin shirts can keep us warmer than a single thick shirt in winter?
  - (1) Two thin shirts become thicker so prevent transmission of heat
  - (2) Air layer between two shirts works as good conductor
  - (3) Air layer between two shirts behaves like insulating media
  - (4) No radiation of heat takes place

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (First Sitting)

- **173.** Which layer of the earth's atmosphere reflect back the radio waves to the earth's surface?
  - (1) ionosphere
  - (2) stratosphere
  - (3) mesosphere
  - (4) exosphere

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (First Sitting)

- 174. Sound cannot pass through
  - (1) water
- (2) steel
- (3) air
- (4) vacuum

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (First Sitting)

- **175** In a photocell light energy is converted into
  - (1) potential energy
  - (2) chemical energy
  - (3) heat energy
  - (4) electrical energy

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (First Sitting)

- **176.** A storm is predicted if atmospheric pressure
  - (1) rises suddenly
  - (2) rises gradually
  - (3) falls suddenly
  - (4) falls gradually

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (Second Sitting)

- **177.** An egg sinks in soft water but floats in a concentrated solution of salt because
  - (1) egg absorbs salt from the solution and expands
  - (2) albumin dissolves in salt solution and egg becomes lighter
  - (3) the density of salt solution exceeds the density of eggs
  - (4) water has high surface tension

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (Second Sitting)

- **178.** What should a person on a freely rotating turn table do to decrease his (angular) speed ?
  - (1) Bring his hands together
  - (2) Raise his hands up
  - (3) Spread his hands outwards
  - (4) Sit down with raised hands (SSC Combined Graduate Level Prelim Exam. 27.07.2008 (Second Sitting)

- **179.** Which of the following celestial bodies contains abundant quantities of helium-3, a potential source of energy?
  - (1) Earth
- (2) Moon
- (3) Venus (4) Saturn

(SSC Combined Graduate Level Prelim Exam. 27.07.2008 (Second Sitting)

- **180.** Smog is a combination of
  - (1) Air and water vapours
  - (2) Water and smoke
  - (3) Fire and water
  - (4) smoke and fog

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **181.** Which of the following circuit elements is used to 'block' DC in an electronic circuit?
  - (1) Resistances
  - (2) Capacitance
  - (3) Inductance
  - (4) Diode

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **182.** Spectacles used for viewing 3D films have
  - (1) Bifocal lens
  - (2) Convex lens
  - (3) Concave lens
  - (4) Polaroids

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **183.** A boy sitting in an open car moving with the constant speed throws a ball straight up into the air. The ball falls
  - (1) behind him
  - (2) in front of him
  - (3) into his hand
  - (4) by his side

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **184.** The process involved in making soap is
  - (1) saponification
  - (2) hydrolysis
  - (3) condensation
  - (4) polymerisation

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- 185. A kilowatt-hour is unit of
  - (1) Energy
  - (2) Power
  - (3) Electric charge
  - (4) Electric current

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **186.** Ventilators are provided near the ceiling of the room because
  - (1) the exhaled warmer air rises up and goes out
  - (2) these provide cross ventilation in the room
  - (3) these provide some sunlight in the room
  - (4) these do not look nice in the lower part

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **187.** The hair of shaving brush clings together when removed from water due to
  - (1) Surface tension
  - (2) Viscosity
  - (3) Elasticity
  - (4) Friction

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **188.** In severe winter, in cold countries water pipes burst because
  - (1) water expands on freezing
  - (2) contraction of water pipes
  - (3) high atmospheric pressure
  - (4) combined effect of all the above three

(SSC CPO Sub-Inspector Exam. 09.11.2008)

- **189.** In the process of magnetisation of a bar
  - (1) The entire bulk of the bar gets magnetised
  - (2) Only the surface of the bar gets magnetised
  - (3) Only the ends of the bar get magnetised
  - (4) Only some parts of the outer layers of the bar get magnetised

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **190.** A falling drop of rain water acquires the spherical shape due to
  - (1) Viscosity
  - (2) Surface Tension
  - (3) Atmospheric pressure
  - (4) Gravitational force

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **191.** The weakest of all fundamental forces is
  - (1) Gravitational force
  - (2) Electrostatic force
  - (3) Magnetic force
  - (4) Nuclear force

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **192.** Velocity of sound in air does not change with the change of
  - (1) Temperature of air
  - (2) Pressure of air
  - (3) Moisture content in air
  - (4) Wind in the direction of propagation of sound

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **193.** The density of a gas is maximum at
  - (1) Low temperature, low pressure
  - (2) Low temperature, high pressure
  - (3) High temperature, low pressure
  - (4) High temperature, high pressure

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **194.** The cause for the Tsunami, as deduced by the seismologists, is
  - (1) gravitational pull of the moon
  - (2) low pressure trough in the ocean
  - (3) deformation of sea floor and vertical displacement of water
  - (4) sudden change in the monsoon wind

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **195.** Which one of the following wavelengths of light is most effective in photosynthesis?
  - (1) Blue
- (2) Green
- (3) Orange (4) Yellow

(SSC Section Officer (Audit) Exam. 30.11.2008)

- **196.** Why is it difficult to breathe at higher altitudes?
  - (1) Due to low air pressure
  - (2) Due to low temperature
  - (3) Due to ozone
  - (4) Due to high humidity (SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)
- **197.** The strongest force in nature is
  - (1) electrical force
  - (2) gravitational force
  - (3) nuclear force
  - (4) magnetic force

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **198.** According to the theory of relativity, which of the following always remains constant?
  - (1) Length of an object
  - (2) Time
  - (3) Space
  - (4) Velocity of light

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **199.** The spoon dropped by an astronaut in a satellite will
  - (1) fall to the floor
  - (2) remain stationary
  - (3) continue to follow the motion of the satellite
  - (4) move tangentially away (SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)
- 200. A colour-blind person cannot
  - (1) see distant objects
  - (2) see black colour
  - (3) distinguish between certain colours
  - (4) have persistence of vision (SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)
- **201.** Pipelines in cold countries often burst in winter, because
  - (1) water freezes and expands in its volume
  - (2) temperature of ice is less than that of water
  - (3) pipelines contract in their volume
  - (4) pipelines expand due to freezing

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **202.** When a body is taken from earth to moon
  - (1) mass changes but weight remains same
    - (2) weight changes but mass remains same
    - (3) both weight and mass change
    - (4) both weight and mass remain same

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **203.** A mirage occurs because of
  - (1) reflection by hot ground
  - (2) total internal reflection by layers of air
  - (3) interference of light
  - (4) diffraction of light

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **204.** Atomic power plant works on the principle of
  - (1) fission
  - (2) fusion
  - (3) thermal combustion
  - (4) combined effect of all the above three

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 14.12.2008)

- **205.** Bolometer is used to measure
  - (1) Frequency(2) Temperature
  - (3) Velocity (4) Wavelength (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- 206. ATM stands for
  - (1) Automatic Teller Machine
  - (2) Automated Teller Machine
  - (3) Automatic Tally Machine
  - (4) Automated Tally Mechanism (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- **207.** A person is hurt on kicking a stone due to
  - (1) Inertia (2) Velocity
  - (3) Reaction (4) Momentum (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- **208.** The fuse in our domestic electric circuit melts when there is a high rise in
  - (1) Inductance(2) Current
  - (3) Resistance(4) Capacitance (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- **209.** Which of the following is an example for cantilever beam?
  - (1) Diving board
  - (2) Bridge
  - (3) See-saw
  - (4) Common balance (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- **210.** It is difficult to cook rice
  - (1) at the top of a mountain
  - (2) at the sea level
  - (3) under a mine
  - (4) same anywhere (SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)
- **211.** A dynamo is a device which
  - (1) creates mechanical energy
  - (2) creates electrical energy
  - (3) converts mechanical energy into electrical energy
  - (4) converts electrical energy into mechanical energy

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)

- **212.** A soap bubble shows colours when illuminated with white light. This is due to
  - (1) Diffraction
  - (2) Polarisation
  - (3) Interference
  - (4) Reflection

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)

#### | PHYSICS

- **213.** The instrument used to see the distant objects on the Earth is
  - (1) Terrestrial telescope
  - (2) Astronomical telescope
  - (3) Compound microscope
  - (4) Simple microscope

(SSC Tax Assistant (Income Tax & Central Excise) Exam. 29.03.2009)

- **214.** Global warming is expected to result in
  - (1) increase in level of sea
  - (2) change in crop pattern
  - (3) change in coast line
  - (4) All of the above

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **215.** Which of the following liquids has the least density?
  - (1) Fresh water
  - (2) Salt water
  - (3) Petrol
  - (4) Mercury

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **216.** Which of the following principle is used to produce 'low-temperatures'?
  - (1) Super conductivity
  - (2) Joule-Kelvin effect
  - (3) Thermo-electric effect
  - (4) Adiabatic demagneti-sation (SSC CPO Sub-Inspector Exam. 06.09.2009)
- **217.** A photo-electric cell converts
  - (1) mechanical energy to electric energy
  - (2) heat energy to mechanical energy
  - (3) light energy to chemical energy
  - (4) light energy to electrical energy

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **218.** Two stones of different masses are dropped simultaneously from the top of a building
  - (1) Smaller stone reaches the ground earlier
  - (2) Larger stone reaches the ground earlier
  - (3) Both the stones reach the ground at the same time
  - (4) Depends on the composition of the stone

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **219.** The ozone hole that has been detected lies in the atmosphere above
  - (1) Arctic Ocean
  - (2) Antarctica
  - (3) India
  - (4) Alaska

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **220.** The device used to change the speed of an electric fan is
  - (1) Amplifier (2) Regulator
  - (3) Switch (4) Rectifier

(SSC CPO Sub-Inspector Exam. 06.09.2009)

- **221.** Fog is an example of
  - (1) Gas dispersed in gas
  - (2) Liquid dispersed in gas
  - (3) Solid dispersed in gas
  - (4) Solid dispersed in liquid (SSC CPO Sub-Inspector Exam. 06.09.2009))
- **222.** A concave lens always forms an image which is
  - (1) real and erect
  - (2) virtual and erect
  - (3) real and inverted
  - (4) virtual and inverted (SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)
- **223.** The modulus of rigidity is the ratio of
  - (1) longitudinal stress to longitudinal strain
  - (2) Volume stress to volume strain
  - (3) shearing stress to shearing
  - (4) tensile stress to tensile strain (SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)
- **224.** The propagation of sound waves in a gas involves
  - (1) adiabatic compression and rarefaction
  - (2) isothermal compression and rarefaction
  - (3) isochoric compression and rarefaction
  - (4) isobaric compression and rarefaction

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- **225.** Which of the following is **not** a property of heavy water?
  - Boiling point of heavy water is lower than that or ordinary water

- (2) Density of heavy water is higher than that of ordinary water
- (3) Freezing point of heavy water is higher than that of ordinary water
- (4) It produces corrosion (SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)
- **226.** In which of the following processes is energy released?
  - (1) Respiration
  - (2) Photosynthesis
  - (3) Ingestion
  - (4) Absorption

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- **227.** If input frequency of a full wave rectifier be *n*, then output frequency would be
  - 1)  $\frac{n}{2}$

(2) n

(3)  $\frac{3n}{2}$ 

(4) 2n

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- **228.** Heat transfer horizontally within the atmosphere is called
  - (1) Conduction
  - (2) Convection
  - (3) Absorption
  - (4) Advection

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- 229. Noise is measured in
  - (1) Watt
- (2) REM
- (3) Centigrade(4) Decibel

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- **230.** The bats can fly in the dark because
  - (1) they can see the objects in darkness
  - (2) they have weak legs and are likely to be attacked by predators
  - (3) they generate flashes of light
  - (4) they generate ultrasonic sound waves

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (First Sitting)

- **231.** What changes will happen to a bowl of ice and water kept at exactly zero degree Celsius?
  - (1) All ice will melt
  - (2) All water will become ice
  - (3) No change will happen
  - (4) Only some ice will melt

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010

(First Sitting))

- **232.** Curie point is the temperature at which
  - (1) Matter becomes radioactive
  - (2) A metal loses magnetic properties.
  - (3) A metal loses conductivity
  - (4) Transmutation of metal occurs.

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (Second Sitting)

- **233.** Angle of friction and angle of repose are
  - (1) equal to each other
  - (2) not equal to each other
  - (3) proportional to each other
  - (4) None of the above

(SSC Combined Graduate Level Tier-I Exam. 16.05.2010 (Second Sitting)

- **234.** If a boy sitting in a train, which is moving at a constant velocity, throws a ball straight up into the air, the ball will
  - (1) fall in front of him
  - (2) fall behind him
  - (3) fall into his hand
  - (4) None of the above

(SSC SAS Exam. 26.06.2010

(Paper-1)

- **235.** Intensity of gravitational field of earth is maximum at
  - (1) Poles
  - (2) Equator
  - (3) Centre of earth
  - (4) Surface

(SSC SAS Exam. 26.06.2010

(Paper-1)

- **236.** The spokes used in the wheel of a bicycle increase its
  - (1) Moment of inertia
  - (2) Velocity
  - (3) Acceleration
  - (4) Momentum

(SSC SAS Exam. 26.06.2010

(Paper-1)

- **237.** A transformer works on the principle of
  - (1) Self induction
  - (2) Mutual induction
  - (3) Generator
  - (4) Inverter

(SSC SAS Exam. 26.06.2010 (Paper-1)

- 238. The sky appears blue because
  - (1) all colours interfere to produce blue
  - in white light, the blue component dominates
  - (3) the atmosphere scatters blue colour more than the others
  - (4) it is actually blue

(SSC CISF ASI Exam. 29.08.2010 (Paper-1)

- **239.** When a ship enters the sea from a river
  - (1) it rises a little
  - (2) it sinks a little
  - (3) it remains at the same level
  - (4) it rises or sinks depending on the material it is made of

(SSC CISF ASI Exam. 29.08.2010 (Paper-1)

- **240.** Two stones of unequal masses are thrown vertically up with the same velocity. Which of the following will happen?
  - (1) The heavier mass will reach greater height
  - (2) The lighter mass will reach greater height
  - (3) Both will reach the same height
  - (4) Any of them may reach greater height

(SSC CISF ASI Exam. 29.08.2010 (Paper-1)

- **241.** The unit of electrical power is
  - (1) Bolt
- (2) Watt
- (3) Kilowatt hour (4) Ampere (SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3)
- **242.** The scientist who first sent electromagnetic waves to distant places is
  - (1) James Clerk Maxwell
  - (2) Heinrich Hertz
  - (3) Thomas Alva Edison
  - (4) John Logie Baird

(SSC CISF ASI Exam. 29.08.2010 (Paper-1)

- **243.** The centre of gravity of a sprinter during the race lies
  - (1) ahead of his feet
  - (2) behind his feet
  - (3) at the centre of the body
  - (4) to the left side of the body (SSC (South Zone) Investigator Exam. 12.09.2010)

- **244.** Cloudy nights are warmer compared nights, because clouds mainly
  - (1) absorb heat from the atmosphere send it towards earth
  - (2) prevent cold waves from the sky descending on earth
  - (3) reflect back the heat given by earth
  - (4) produce heat and radiate it toward earth

(SSC (South Zone) Investigator Exam. 12.09.2010)

- 245. A metal plate with a circular hole at the centre is heated. What will happen to the area of the hole?
  - (1) Increase
  - (2) Dacrease
  - (3) Remain constant
  - (4) Will increase first and then dcrease

(SSC CPO Sub-Inspector Exam. 12.12.2010 (Paper-1)

- **246.** The period of revolution of a geostationary satellite is
  - (1) 365 days
  - (2) 30 days
  - (3) 24 hours
  - (4) changing continuously

(SSC CPO Sub-Inspector Exam. 12.12.2010 (Paper-1)

- **247.** A piece of paper and a cricket ball are dropped from the same height. Under which of the following conditions do both reach the surface simultaneously?
  - (1) They must have the same volume
  - (2) They must have the same density
  - (3) They must have the same mass
  - (4) They must be dropped in vacuum

(SSC CPO Sub-Inspector Exam. 12.12.2010 (Paper-1)

- **248.** The frequency of ultrasound wave is typically
  - (1) Above 20 kHz
  - (2) Above 20,000 kHz
  - (3) Below 20 kHz
  - (4) Below 02 kHz

(SSC CPO Sub-Inspector Exam. 12.12.2010 (Paper-1)

- **249.** Which type of reaction produces the most harmful radiation?
  - (1) Fusion reaction
  - (2) Fission reaction
  - (3) Chemical reaction
  - (4) Photo-Chemical reaction (SSC Combined Graduate Level Tier-I Exam. 19.06.2011

(First Sitting)

- **250.** Optical fibres are based on the phenomenon of
  - (1) Interference
  - (2) Dispersion
  - (3) Diffraction
  - (4) Total Internal Reflection (SSC Combined Graduate Level Tier-I Exam. 19.06.2011 (Second Sitting)
- **251.** 'Mirage' is an example of
  - (1) refraction of light only
  - (2) total internal, reflection of light only
  - (3) refraction and total internal reflection of light
  - (4) dispersion of light only (SSC Combined Graduate Level Tier-I Exam. 19.06.2011 (Second Sitting)
- **252.** The phenomenon of light associated with the appear-ance of blue colour of the sky is
  - (1) Interference
  - (2) Reflection
  - (3) Refraction
  - (4) Scattering

(SSC Combined Graduate Level Tier-I Exam. 19.06.2011 (Second Sitting)

- 253. Lens is made up of
  - (1) Pyrex glass(2) Flint glass
  - (3) Ordinary glass
  - (4) Cobalt glass

(SSC Combined Graduate Level Tier-I Exam. 19.06.2011 (Second Sitting)

- **254.** The time period of a pendulum when taken to the Moon would:
  - (1) remain the same
  - (2) decrease
  - (3) become zero
  - (4) increase

(SSC Combined Graduate Level Tier-I Exam. 26.06.2011 (First Sitting)

- **255.** The atmospheric air is held to the Earth by :
  - (1) gravity (2) winds
  - (3) clouds
  - (4) rotation of the Earth

(SSC Combined Graduate Level Tier-I Exam. 26.06.2011 (First Sitting)

- **256.** The function of ball bearings in a wheel is :
  - (1) to increase friction
  - (2) to convert kinetic friction into rolling friction
  - (3) to convert static friction into kinetic friction
  - (4) just for convenience

(SSC Combined Graduate Level Tier-I Exam. 26.06.2011 (First Sitting)

- **257.** 'Shock-absorbers' are usually made of steel as it:
  - (1) is not brittle
  - (2) has lower elasticity
  - (3) has higher elasticity
  - (4) has no ductile property (SSC Combined Graduate Level Tier-I Exam. 26.06.2011

(First Sitting)

- **258.** Among the following materials sound travels fastest in
  - (1) Steel
- (2) Air
- (3) Vacuum (4) Water (SSC Combined Graduate Level Tier-I Exam. 26.06.2011 (Second Sitting)
- 259. Lambert's law is related to
  - (1) Reflection
  - (2) Refraction
  - (3) Interference
  - (4) Illumination

(SSC Combined Graduate Level Tier-I Exam. 26.06.2011 (Second Sitting)

- **260.** One can distinguish a telescope from a microscope by observing
  - (1) length
  - (2) colour
  - (3) size of the lens
  - (4) length and size of the lens (SSC CPO(SI, ASI & Intelligence Officer) Exam. 28.08.2011

(Paper-1)

- **261.** The sound produced by a bat is-
  - (1) audible (2) subsonic
  - (3) infrasonic (4) ultrasonic (SSC CPO(SI, ASI & Intelligence Officer) Exam. 28.08.2011 (Paper-1)
- **262.** When a bar magnet is cut into two equal halves, the pole strength of each piece
  - (1) becomes double
  - (2) becomes half
  - (3) becomes zero
  - (4) remains the same (SSC CPO(SI, ASI & Intelligence
  - Officer) Exam. 28.08.2011 (Paper-1)

- **263.** A new technology which provides the ability to create an artificial world and have people interact with it is called:
  - (1) Televirtuality
  - (2) Virtual reality
  - (3) Alternate reality
  - (4) 3-D reality

(SSC CPO(SI, ASI & Intelligence Officer) Exam. 28.08.2011 (Paper-1)

- **264.** Electrostatic precipitator is used to control
  - (1) Air pollution
  - (2) Water pollution
  - (3) Solid waste
  - (4) Noise pollution

(SSC CPO(SI, ASI & Intelligence Officer) Exam. 28.08.2011 (Paper-1)

- **265.** The time period of a seconds pendulum is
  - (1) 1 second (2) 2 seconds
  - (3) 0.5 second(4) 1.5 seconds (FCI Assistant Grade-II

Exam. 22.01.2012 (Paper-1)

**266.** Lakes freeze in cold countries in winter, leaving the water un-

- derneath at (1) 0°C
  - (2) 0°F

(3) 4°C (4) 4°F

(FCI Assistant Grade-II Exam. 22.01.2012 (Paper-1)

**267.** Which one of the following determines the sharpness of image in a camera?

- (1) The aperture
- (2) The exposure time
- (3) The focal length of the lens
- (4) Size of the camera

(FCI Assistant Grade-II

- Exam. 22.01.2012 (Paper-1) **268.** In MRI machine, which one of the following is used?
  - (1) Sound wave
  - (2) 'X'-ray
  - (3) Ultra-sound wave
  - (4) Magnetic wave

(FCI Assistant Grade-II Exam. 22.01.2012 (Paper-1)

- **269.** For a person having hypermetropia, the near point is
  - (1) greater than 25 cm
  - (2) greater than 50 cm
  - (3) less than 25 cm
  - (4) infinity

(FCI Assistant Grade-II Exam. 22.01.2012 (Paper-1)

- **270.** Amount of water vapour in the atmosphere is measured in terms of
  - (1) Humidity
  - (2) Droplets
  - (3) Smog
  - (4) All of the above

(FCI Assistant Grade-II

Exam. 22.01.2012 (Paper-1)

- **271.** Name the process of production of energy in the Sun
  - (1) Nuclear fission
  - (2) Radioactivity
  - (3) Nuclear fusion
  - (4) Ionization

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **272.** A spherical ball made of steel when dropped in mercury container will
  - (1) sink in mercury
  - (2) will be on the surface of mercury
  - (3) will be partly immersed mercury
  - (4) will dissolve in mercury

(FCI Assistant Grade-III

Exam. 5.02.2012 (Paper-1)

- **273.** The sounds having a frequency of 20 Hertz to 20,000 Hertz are known as
  - (1) Audible sounds
  - (2) Ultrasonics
  - (3) Infrasonics
  - (4) Megasonics

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **274.** Eclipses occur due to which optical phenomena?
  - (1) Reflection (2) Refraction
  - (3) Rectilinear propagation
  - (4) Diffraction

(FCI Assistant Grade-III

Exam. 5.02.2012 (Paper-1)

- **275.** Pure water is bad conductor of electricity because it is
  - (1) feebly ionized
  - (2) not volatile
  - (3) a very good solvent
  - (4) a non-polar solvent

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **276.** Gamma rays have greatest similarity with
  - (1)  $\alpha$ -rays (2)  $\beta$ -rays
  - (3) X-rays (4) U.V.-rays

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **277.** In the absence of ozone layer, which rays will enter into atmosphere?
  - (1) Infrared (2) Visible
  - (3) Ultraviolet (4) X-rays

(FCI Assistant Grade-III

Exam. 5.02.2012 (Paper-1)

- **278.** The filament of electric bulb is made up of :
  - (1) Copper (2) Nichrome
  - (3) Lead (4) Tungsten

(FCI Assistant Grade-III

Exam. 5.02.2012 (Paper-1)

**279.** When a vibrating tuning fork is placed on a table, a loud sound is heard. This is due to:

- (1) reflection
- (2) refraction
- (3) forced vibrations
- (4) damped vibrations

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **280.** Light houses are places with powerful lights to:
  - (1) guide and resolve traffic jams in crowded metro-cities during nights.
  - (2) guide and help large crowds at religious gathering during nights.
  - (3) indicate to the incoming warships, the location of a harbour during night.
  - (4) guide and warn the ships coming from different directions in the ocean.

(FCI Assistant Grade-III Exam. 5.02.2012 (Paper-1)

- **281.** A piece of wood is held under water. The upthrust on it will be:
  - (1) equal to the weight of the wood
    - (2) less than weight of the wood
  - (3) more than weight of the wood
  - (4) Zero

(FCI Assistant Grade-III

Exam. 5.02.2012 (Paper-1)

- **282.** Persistance of vision is the principle behind
  - (1) Camera (2) Spectroscope
  - (3) Cinema (4) Periscope (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)
- **283.** In a nuclear reactor, one of the following is used as a fuel.
  - (1) Coal (2) Uranium
  - (3) Radium (4) Diesel

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)

- **284.** The density of the liquid when heated
  - (1) decreases
  - (2) increases
  - (3) does not change
  - (4) may increase of decrease depending on pressure

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)

- **285.** The distance between node and adjacent antinode is 30 cm. The wavelength is
  - (1) 30 cm. (2) 90 cm.
  - (3) 120 cm. (4) 60 cm.

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)

- **286.** The nature of fuse wire is
  - (1) high resistance and low melting point.
  - (2) high resistance and high melting point.
  - (3) low resistance and high melting point.
  - (4) low resistance and low melting point.

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)

- **287.** In a railway track, two rails are joined end to end with a gap in between them because
  - (1) steel can be saved
  - (2) accidents due to contraction in winter can be avoided
  - (3) air-gaps are necessary for bearing the weight of running train
  - (4) accidents due to expansion in summer can be avoided.
  - (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)
- **288.** Vehicle tyres are inflated properly
  - (1) to ensure smooth running.
  - (2) to allow the vehicle to take more load.
  - (3) to avoid skidding and to minimise friction
  - (4) to go fast and save fuel.
  - (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)
- **289.** Refrigeration is a process which
  - (1) kills bacteria
  - (2) slows down the bacterial growth
  - (3) Inactivates the bacteria
  - (4) Plasmolyses the bacteria

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (Ist Sitting)

- **290.** Air coolers are more suitable for
  - (1) hot and humid climate
  - (2) hot and dry climate
  - (3) cool and humid climate
  - (4) cool and dry climate

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- 291. A transformer
  - (1) converts DC to AC
  - (2) is used to decrease or increase AC voltage
  - (3) converts AC voltage to D.C. voltage
  - (4) converts electrical energy into mechanical energy

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- **292.** When hot-water is sprinkled on a hotter glass tumbler, it breaks because
  - (1) glass suddenly expands
  - (2) glass suddenly contracts
  - (3) water evaporates
  - (4) glass reacts chemically with water

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- **293.** Electricity is transmitted over long distances
  - (1) it is fast
  - (2) there is less wastage of energy
  - (3) it is safer
  - (4) it is cheaper

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- **294.** The material used in the fabrication of a transistor is
  - (1) Aluminium (2) Copper
  - (3) Silicon (4) Silver
  - (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)
- **295.** If there is a circular hole in a metal plate, what happens to the radius of the hole when the plate is heated?
  - (1) Increases (2) Decreases
  - (3) Unchanged
  - (4) Depends upon the metal (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)
- **296.** The velocity of sound in air
  - (1) decreases with increase of temperature
  - (2) increases with decrease of temperature
  - (3) does not depend on temperature
  - (4) decreases with decrease of temperature
  - (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- **297.** Electric current in a metal wire is due to the flow of—
  - (1) Electrons (2) Protons
  - (3) Ions

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

(4) Holes

- **298.** The device which converts sound energy into electrical energy is called
  - (1) Amplifier (2) Speaker
  - (3) Microphone (4) Transmitter (SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)
- **299.** The light rays used for eliminating bacteria
  - (1) X-rays
  - (2) infrared rays
  - (3) microwave radiation
  - (4) ultra-violet radiation

(SSC Combined Matric Level (PRE) Exam. 24.10.1999 (IInd Sitting)

- **300.** Mud houses are cooler in summers and warmer in winters as compared to brick houses because
  - (1) mud is a good conductor
  - (2) mud is a bad conductor
  - (3) mud is a poor insulator
  - (4) evaporation of water causes cooling in summers and sunlight coming through holes causes warming in winters

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting (East Zone)

- **301.** After long periods of use, a grey spot develops on the inside of a bulb. This is because
  - (1) the tungsten filament evaporates and collects there
  - (2) the heat of the bulb scorches the glass at the top
  - (3) dust inside the bulb condenses on the top
  - (4) glass undergoes a change due to the heat

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (East Zone)

- **302.** Should cars have bumpers that collapse under impact?
  - (1) Yes, since the offending car should get damaged and pay for the mistake
  - (2) No, since it would be very expensive to get the car repaired
  - (3) No, since the colliding car would then ram into the occupants and kill them

(4) Yes, since they help to absorb the impact of a collision and keep the occupants safe

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (East Zone)

- **303.** Ice cubes are added to a glass of pure water and a glass of pure alcohol. The ice would be
  - (1) at a higher level in water
  - (2) at a higher level in alcohol
  - (3) at the same level in both
  - (4) floating in alcohol and sinking in water

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (East Zone)

- **304.** A person wears spectates with concave lenses. It means that normally (when not using glasses), the image of distant objects is focussed in his eyes
  - (1) behind the retina
  - (2) in front of the retina
  - (3) on the retina
  - (4) on the blind spot

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Riapur, Madhya Pradesh)

- **305.** What is the principle of a 'Life Jacket'?
  - (1) It provides oxygen to a drowning person
  - (2) It increases the volume of the person to keep him afloat
  - (3) It decreases the volume of the person to keep him afloat
  - (4) The person can sit on it like a raft

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Riapur, Madhya Pradesh)

- **306.** Myopia is the same as
  - (1) Near sightedness
  - (2) Astigmatism
  - (3) Presbyopia(4) Long sightedness

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting)

(Riapur, Madhya Pradesh)

- 307. Sun's heat reaches us by
  - (1) Conduction
  - (2) Convection
  - (3) Radiation
  - (4) Reflection

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Riapur, Madhya Pradesh)

- **308.** A sphere rolls down on two inclined planes of different angles but same height, it does so
  - (1) in the same time
  - (2) with the same speed
  - (3) in the same time with the same speed
  - (4) in the same time with the same kinetic energy
  - (SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Riapur, Madhya Pradesh)
- **309.** In heating frozen foods in sealed pouches in a microwaves, why do you first poke holes in the pouch?
  - (1) To prevent the steam pressure from bursting open the pouch
  - (2) To allow the heat to get into the food through the hole
  - (3) To allow the microwaves to get into the food through the holes
  - (4) To allow the aroma of the food to come out through the holes

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting (Middle Zone)

- **310.** A vacuum cleaner works on the principle of pressure difference. On the moon it will
  - (1) work as efficiently as on the earth
  - (2) not work at all
  - (3) work with reduced efficiency
  - (4) work with increased efficiency

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **311.** After reflection from a plane will look like.
  - (1) AMBULANCE
  - (2) ECNALUBMA
  - (3) AMBULANCE
  - (4) AWBULANCE

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **312.** A rubber ball is dropped from a height of 2 metres. To what height will it rise if there is no loss of energy/velocity after rebounding?
  - (1) 4 metres (2) 3 metres
  - (3) 2 metres (4) 1 metre

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **313.** When a pail of water is swung in a vertical circle, the water does not fall out at the top of the loop when the speed is
  - (1) below a certain minimum value irrespective of amount of water in the pail
  - (2) above a certain minimum value irrespective of amount of water in the pail
  - (3) above a certain minimum value depending on amount of water in the pail
  - (4) below a certain minimum value depending on amount of water in the pail

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **314.** Who enunciated the laws of planetary motion?
  - (1) Nicolaus Copernicus
  - (2) Johannes Kepler
  - (3) Isaac Newton
  - (4) Galileo

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **315.** The radiant energy having lowest energy is
  - (1) gamma rays
  - (2) UV rays
  - (3) visible light
  - (4) microwave radiation

(SSC Combined Matric Level (PRE) Exam. 21.05.2000 (Ist Sitting) (Middle Zone)

- **316.** Which one of the following has the highest value of specific heat?
  - (1) Glass (2) Copper
  - (3) Lead (4) Water

(SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting)

- **317.** A microscope used in pathological laboratories forms
  - (1) magnified, virtual, erect image
  - (2) diminished, real and erect image
  - (3) magnified, virtual and inverted image
  - (4) diminished, virtual and erect image

(SSC Combined Matric Level (PRE) Exam. 13.05.2001 (Ist Sitting)

- 318. The velocity of sound is more in
  - (1) water (2) air
  - (3) steel (4) wood

(SSC Combined Matric Level (PRE) Exam. 13.05.2001 (IInd Sitting)

- **319.** The magnifying power of an astronomical telescope can be decreased by
  - (1) decreasing the focal length of the eyepiece
  - (2) increasing the focal length of the eyepiece
  - (3) increasing the focal length of the objective
  - (4) None of these

(SSC Combined Matric Level (PRE) Exam. 27.05.2001 (IInd Sitting (East Zone)

- **320.** Necessary element of change in solar energy to electric energy
  - (1) Berillium (2) Silicon
  - (3) Tantelum (4) Pure Copper (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)
- **321.** Which of the following events occurred first?
  - (1) Albert Einstein propounded the General Theory of Relativity
  - (2) Max Planck unveiled the Quantum Theory
  - (3) Marconi first tranmitted a wireless signal
  - (4) Madame Marie Curie became the first woman Nobel Prize winner

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- 322. The audio signals of TV are
  - (1) Amplitude modulated
  - (2) Frequency modulated
  - (3) Unmodulated
  - (4) Velocity modulated

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **323.** Red light is used for signals because it has
  - (1) long wavelength
  - (2) high intensity
  - (3) high frequency
  - (4) low refraction in the medium (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **324.** Woollen cloth protects the body from cold because
  - (1) it is a good conductor of heat
  - (2) it is a poor conductor of heat
  - (3) external heat rays enter into the body through the woollen cloth
  - (4) it reflects heat

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **325.** The owl can see most clearly in total darkness because
  - (1) it has squint eyes
  - (2) it has large eyes with orbs directed forward, giving it binocular sight
  - (3) it has light bulbs in its eyes provided by nature
  - (4) it produces infrasonic sounds

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **326.** Damp clothes are dried in spin dryers by the action of
  - (1) centripetal forces
  - (2) centrifugal forces
  - (3) central forces
  - (4) non central forces

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **327.** Which colour of light shows maximum deviation when passed through a prism?
  - (1) Red
- (2) Green
- (3) Violet
- (4) Yellow

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **328.** Tape recorder should **not** be kept near one of the following things:
  - (1) Clock (2) Magnet
  - (3) Electrical switchboard
  - (4) Radio

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **329.** When a person sitting on a swing stands up on the swing, the frequency of oscillation
  - (1) decreases
  - (2) increases
  - (3) becomes infinite
  - (4) does not change

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **330.** Night photography and photopraphy in mist and fog are possible using
  - (1) ultra-violet radiation
  - (2) infra-red radiation
  - (3) microwave radiation
  - (4) gamma radiation

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (Eastern Zone, Guwahati)

- **331.** The blue colour of water in the sea is due to
  - (1) absorption of other colours except blue by water molecules
  - (2) scattering of blue light by water molecules
  - (3) reflection of blue light by impurities in sea water
  - (4) reflection of blue sky by sea water

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **332.** Which of the following is a good conductor of heat but a bad conductor of electricity?
  - (1) Celluloid (2) Rubber
  - (3) Asbestos (4) Mica

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **333.** An aircraft can perform aerobatic manoeuvres in a vertical loop because of
  - (1) gravity
  - (2) centripetal force
  - (3) weight
  - (4) centrifugal force

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **334.** A photostat machine works on
  - (1) electromagnetic image making
  - (2) electrostatic image making
  - (3) magnetic image making
  - (4) thermal image making

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **335.** Steam at 100°C causes more severe burns than water at 100°C because
  - (1) steam has no specific heat capacity
  - (2) steam has latent heat of vaporisation

- (3) water has no specific heat capacity
- (4) water has latent heat of fusion

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **336.** To measure the speed of an approaching car a police officer shines
  - (1) light waves on it
  - (2) microwaves on it
  - (3) radio waves on it
  - (4) ultra high frequency waves

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **337.** During hot weather, the fan produces a feeling of comfort. This is because
  - (1) fan supplies cool air
  - (2) fan cools the air
  - (3) our perspiration eva-porates rapidly
  - (4) conductivity of air increases (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)
- **338.** Forged documents are detected by
  - (1) ultraviolet rays
  - (2) infra-red rays
  - (3) beta rays
  - (4) gamma rays

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **339.** Rainbow is seen after rain because of hanging molecules of water which act as
  - (1) lenses (2) mirrors
  - (2) prisms (4) slabs

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **340.** Which of the following is a result of Surface tension?
  - (1) Gravitational pull
  - (2) Viscosity
  - (3) Capillary action
  - (4) Radiation

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (Eastern Zone, Guwahati)

- **341.** Lightning is caused due to
  - (1) electric power
  - (2) electric discharge
  - (3) electric leak
  - (4) electric pressure

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)

#### **≠** PHYSICS

- **342.** Sprayer functions on
  - (1) Bernouli's principle
  - (2) Archemede's principle
  - (3) Pascal's law
  - (4) Floatation principle
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)
- 343. The device which transfer the signal from low resistance region to high resistance region is
  - (1) diode (2) transistor
  - (3) capacitor (4) inductor
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)
- **344.** A bird sitting on a high tension electric wire does not get electrocuted because
  - (1) it has high resistance
  - (2) the body is earthed
  - (3) it does not form a closed path for the flow of current
  - (4) its feet are good insulators (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)
- **345.** The wall of a dam is broader at the base
  - (1) because streamlining is required
  - to withstand pressure that increases with depth
  - (3) to withstand pressure that increases in a horizontal plane
  - (4) to withstand pressure that is increased with atmospheric pressure
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)
- 346. Which of the following is arranged in order of decreasing conductivity?
  - (1) Copper, Aluminium, Steel, Silver
  - (2) Aluminium, Silver, Copper, Steel
  - (3) Copper, Silver, Aluminium, Steel
  - (4) Silver, Copper, Aluminium, Steel
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)
- **347.** Which of the following liquids is most viscous?
  - (1) Oil (2) Milk
  - (3) Water (4) Petrol
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (Ist Sitting) (North Zone, Delhi)

- 348. Radio activity is due to
  - (1) unstable nucleus
  - (2) stable nucleus
  - stable electronic configu-ration
  - (4)stable electronic configu-ration
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- **349.** Which conservation principle is applicable in the case of the motion of a rocket?
  - (1) Conservation of mass
  - Conservation of charge
  - Conservation of momentum
  - Conservation of energy
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- **350.** It is easier to carry two buckets of water in one hand each, than to carry only one in one hand because
  - (1) weights of buckets are balanced
  - centre of gravity falls within the body
  - (3) centre of gravity and centre of equilibrium fall within the feet
  - (4) resultant weight of buckets is zero
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- **351.** The surface tension of water on adding detergent to it
  - (1) increases
  - (2) decreases
  - (3) no change
  - (4) becomes zero
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- 352. In a refrigerator, the cooling system should always be
  - (1) at the top
  - (2) at the bottom
  - (3) at the middle
  - (4) can be anywhere
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- **353.** Which of the following is optical illusion?
  - (1) Rainbow (2) Earthshine
  - (3) Halo
- (4) Mirage

(SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)

- 354. An athlete runs before long jump to get advantage on
  - (1) Inertia of motion
  - (2) Frictional force
  - (3) Moment of a force
  - (4) Principle of moments (SSC Combined Matric Level (PRE)

Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)

- **355.** In sunlight a rose appears red. In green light, the same rose appears
  - (1) red (2) black
  - (3) green (4) yellow
  - (SSC Combined Matric Level (PRE) Exam. 05.05.2002 (IInd Sitting) (North Zone, Delhi)
- 356. The sparkling of a diamond is due to
  - (1) total internal reflection of light
    - (2) interference of light
    - (3) polarisation of light
    - (4) refraction of light
    - (SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)
- **357.** Ocean currents are an example of
  - (1) convection
  - (2) conduction
  - (3) insulation
  - (4) radiation
- (SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)
- **358.** If a copper wire is increased to double its length, its resistance will become
  - (1) four times (2) one-fourth
  - (3) double (4) half
  - (SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)
- 359. In a diesel engine the high temperature needed to ignite the fuel is achieved by
  - (1) using heat from exhaust
  - (2) the battery
  - (3) compressing air in the cylinders
  - (4) an electrical spark
  - (SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)
- **360.** Waves that are required for long distance wireless communication are
  - (1) Infrared rays
  - (2) Ultraviolet rays
  - (3) Radio waves
  - (4) Microwaves
  - (SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)

- **361.** Rise of oil a wick is due to
  - (1) density of the oil
  - (2) viscosity of the oil
  - (3) surface tension of the oil
  - (4) pressure of the oil

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)

- **362.** The radiation initially produced in fluorescent tube is
  - (1) infrared
  - (2) ultraviolet
  - (3) microwaves
  - (4) X-rays

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (Ist Sitting)

- **363.** The 'four stroke petrol engine' is based on
  - (1) Carnot-cycle
  - (2) Otto-cycle
  - (3) Diesel-cycle
  - (4) Boyle's-cycle

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **364.** It is dangerous to observe Solar eclipse with naked eyes because
  - (1) Infrared radiations from sun burn our retina
  - (2) Ultraviolet radiations from Sun burn our retina
  - (3) All radiations from sun initiate chemical reactions in eyes
  - (4) Cosmic rays reach eyes more during the eclipse

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **365.** These waves cannot be transmitted through vacuum
  - (1) Light
  - (2) Sound
  - (3) Heat
  - (4) Electromagnetic

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **366.** A gap is left between two rails of a railway track to accommodate..... of the metal.
  - (1) areal expansion
  - (2) volume expansion
  - (3) liner expansion
  - (4) apparent expansion

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **367.** If an ordinary glass tube and a glass capillary tube are both dipped in a beaker of water, water rises in
  - (1) both
  - (2) only the glass tube
  - (3) only the capillary tube
  - (4) neither

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **368.** 'Hydraulic brakes' work on the principle of
  - (1) Pascal's law
  - (2) Thomson's law
  - (3) Newton's law
  - (4) Bernoulli's theorem

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **369.** Stars in the sky appear to twinkle due to
  - (1) a series of refractions
  - (2) a series of reflections
  - (3) a surface tension phenomenon
  - (4) multiple diminishing brightness

(SSC Combined Matric Level (PRE) Exam. 12.05.2002 (IInd Sitting)

- **370.** A pilot has to release the bomb to hit a target
  - (1) right above the target
  - (2) beyond the target
  - (3) before the target
  - (4) None of these

(SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)

- 371. Parabolic mirros are used in
  - (1) Car headlights
  - (2) Driving mirrors
  - (3) Dentists mirros
  - (4) Shaving mirros

(SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)

- **372.** Red is used as an emergency or danger signal as
  - (1) it is a striking colour
  - (2) its wavelength is the longest
  - (3) it is scattered
  - (4) it has very high energy (SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)
- **373.** Bats can sense obstacles because they produce
  - (1) supersonic sound waves
  - (2) ultrasonic sound waves
  - (3) infrasonic sound waves
  - (4) micro sound waves

(SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)

- **374.** The resistance of the human body (dry condition) is of the order of
  - (1)  $10^1$  Ohm (2)  $10^2$  Ohm
  - (3)  $10^3$  Ohm (4)  $10^4$  Ohm

(SSC CGL Tier-I Exam. 19.10.2014 TF No. 022 MH 3)

- **375.** The sharpness of a television image is termed as its
  - (1) Clarity (2) Colour
  - (3) Resolution(4) Graphics (SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)
- **376.** Small bubbles are perfectly spherical because of
  - (1) Gravity
  - (2) Pressure
  - (3) Viscosity
  - (4) Surface tension

(SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)

- **377.** The final image in a simple microscope is
  - (1) real, diminished and inverted
  - (2) real, magnified and erect
  - (3) virtual, magnified and erect
  - (4) virtual, diminished and erect (SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)
- **378.** Two rods, one of copper and other of steel, experience the same upthrust when placed in water. Thus, both have
  - (1) equal volume
  - (2) equal weight
  - (3) equal density
  - (4) equal mass

(SSC Combined Matric Level (PRE) Exam. 16.06.2002 (Re-Exam)

- **379.** A single fixed pulley is used to draw water from a well because
  - (1) efficiency is 100%
  - (2) velocity ratio is low
  - (3) mechanical advantage is high
  - (4) force is applied in a convenient direction

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- **380.** A light year is a measure of :
  - (1) Speed (2) Velocity
  - (3) Distance (4) Time

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- **381.** A device which is used to limit the current in an electrical circuit is called a
  - (1) Grid (2) Fuse
  - (3) Hub (4) Conductor (SSC Combined Matric Level (PRE) Exam. 30.07.2006

- **382.** Hypermetropia or longsight can be corrected by using:
  - (1) Bifocal lenses
  - (2) Cylindrical lenses
  - (3) Concave lenses
  - (4) Convex lenses

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- **383.** Stars appear twinkling because of ..... of light.
  - (1) Reflection (2) Scattering
  - (3) Emission (4) Absorption (SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)
- 384. Speed of sound in air is unaffected by change in:
  - (1) Pressure (2) Humidity
  - (3) Temperature (4) Volume

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- **385.** The audio signals of TV are:
  - (1) Amplitude modulated
  - (2) Frequency modulated
  - (3) Unmodulated
  - (4) Velocity modulated

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- 386. In mirrors the back surface is coated with a thin layer of:
  - (1) Mercury (2) Silver
  - (3) Red oxide (4) Silver nitrate (SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)
- **387.** A bomb at rest explodes into a large number of tiny fragments. The total momentum of all the fragments
  - (1) is zero
  - (2) depends on the total mass of all the fragments
  - (3) depends on the speeds of various fragments
  - (4) is infinity

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (Ist Sitting (East Zone)

- 388. An optically plane surface reflects a beam of light
  - (1) as a parallel beam in one direction
  - as diffused beams in all directions

- (3) as parallel beams in all directions
- (4) as a diffused beam in one direction

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (IInd Sitting (Central Zone)

- **389.** The slope of a velocity-time graph represents
  - (1) acceleration
  - (2) displacement
  - (3) distance
  - (4) speed

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (IInd Sitting (Central Zone)

- **390.** The earth-wire of a cable is connected to
  - (1) the outer metallic body of the appliance
  - the fuse of the appliance
  - (3) the filament of the appliance
  - (4) short circuitry of the appliance

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (IInd Sitting (Central Zone)

- **391.** Water is used in car radiator because of its
  - (1) low density
  - (2) easy availability
  - (3) high specific heat capacity
  - (4) low boiling point

(SSC Combined Matric Level (PRE) Exam. 30.07.2006 (IInd Sitting (Central Zone)

- 392. How much mechanical work must be done to completely melt 1 gram of ice at 0°C?
  - (1) 4.2 J (2) 80 J
  - (3) 336 J (4) 2268 J

(SSC Combined Matric Level (PRE) Exam. 30.07.2006

(IInd Sitting (Central Zone)

- **393.** A bullet is fired from a rifle which recoils after firing. The ratio of kinetic energy of the rifle to that of the bullet is
  - (1) zero
- (2) one
  - (3) less than one (4) more than one

(SSC Combined Matric Level (PRE) Exam. 30.07.2006

(IInd Sitting (Central Zone)

- **394.** Heat stored in water vapour is
  - (1) specific heat
  - (2) latent heat
  - (3) absolute heat
  - (4) relative heat

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- 395. The layer of atmosphere used for radio-wave transmission is
  - (1) chromosphere
  - (2) troposphere
  - (3) ionosphere
  - (4) stratosphere

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- **396.** Negative feedback in amplifiers
  - (1) increases bandwidth and decreases noise
  - (2) decreases bandwidth and decreases noise
  - (3) increases bandwidth and increases noise
  - (4) decreases bandwidth and increases noise

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- 397. Water cannot be used to extinguish fire caused by electric current, because
  - (1) it may cause electrocution
  - (2) it may cause hydrolysis
  - (3) it may cause electrolysis
  - (4) it may spoil the wiring (SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)
- **398.** A periscope works on the principle of
  - (1) refraction
  - (2) total internal reflection
  - (3) diffraction
  - (4) reflection

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- **399.** A copper disc has a hole. If the disc is heated, the size of the hole
  - (1) increases
  - (2) decreases
  - (3) No change
  - (4) first increases and than decreases

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- 400. A rear-view mirror for driving is
  - (2) concave (1) plain
  - (3) convex (4) inverted

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- 401. The important unit of a microprocessor is
  - (1) ALU
  - (2) array of registers
  - (3) control unit
  - (4) All of the above

(SSC Combined Matric Level (PRE) Exam. 30.03.2008 (Ist Sitting)

- **402.** Anemometer is used to measure
  - (1) wind direction
  - (2) wind velocity
  - (3) pressure gradient
  - (4) wind speed and time

(SSC Data Entry Operator Exam. 31.08.2008)

- **403.** Which one of the following has the highest value of specific heat?
  - (1) Glass
- (2) Copper
- (4) Water (3) Lead

(SSC Data Entry Operator Exam. Held on: 31.08.2008)

- **404.** The device used for locating submerged objects under sea is.
  - (1) sonar
- (2) radar
- (3) laser (4) maser

(SSC Data Entry Operator Exam. 31.08.2008)

- 405. The metal whose electrical conductivity is more, is
  - (1) copper
- (2) aluminium
- (3) silver
- (4) lead

(SSC Data Entry Operator Exam. 31.08.2008)

- **406.** What happens to a liquid, when the vapour pressure equals the atmospheric pressure?
  - (1) The liquid cools
  - (2) The liquid boils
  - (3) No change
  - (4) The liquid evaporates

(SSC Data Entry Operator Exam. 31.08.2008)

- 407. In nuclear reactor, heavy water is used as
  - (1) coolant (2) fuel
  - (3) moderator
  - (4) atomic smasher

(SSC Data Entry Operator Exam. 31.08.2008)

- **408.** Tear gas used by the police to disperse the mob contains
  - (1) carbon dioxide
  - (2) chlorine (3) ammonia
  - (4) hydrogen sulphide

(SSC Data Entry Operator Exam. 31.08.2008)

- **409.** Water boils at a lower temperature on the hills because
  - (1) it is cold on the hills
  - (2) there is less carbon dioxide on the hills
  - (3) there is a decrease in air pressure on the hills
  - (4) There is less oxygen

(SSC Data Entry Operator Exam. 02.08.2009)

- **410.** Why do brids not have respiratory trouble at the time of flying at high altitude?
  - (1) Their lungs are very large
  - (2) They fly inactively
  - (3) They have extra air sacs
  - (4) They use less oxygen (SSC Data Entry Operator Exam. 02.08.2009)
- **411.** The temperature which has the same reading on both Fahrenheit and Celsius scales is
  - $(1) 40^{\circ}$
- $(2) -40^{\circ}$
- $-34^{\circ}$  $(4) -140^{\circ}$

(SSC Data Entry Operator Exam. 02.08.2009)

- **412.** Kilowatt -hour is the unit of:
  - (1) Energy (2) Power
    - (4) Momentum
  - (3) Force (SSC Stenographer (Grade 'C' & 'D') Exam. 26.09.2010)
- **413.** The part of the eve having the larges refractive index is:
  - (1) cornea
  - (2) aqueous humor
  - (3)lens
  - (4) vitreous humor

(SSC Stenographer (Grade 'C' & 'D') Exam. Held on: 26.09.2010)

- 414. Conversion of heat into electrical er is achieved by using:
  - (1) Ammeter
  - Hydrometer (2)
  - (3)Voltmeter
  - (4) Thermocouple

(SSC Stenographer (Grade 'C' & 'D') Exam. 26.09.2010)

- 415. Ball pen functions on the principle of:
  - (1) Viscosity
  - (2) Boyle's Law
  - (3) Gravitational force
  - (4) Surface tension

(SSC Stenographer (Grade 'C' & 'D') Exam. 26.09.2010)

- 416. A man cannot see clearly beyond 10 meters. The disease he suffers from:
  - (1) Far sight
  - (2) Myopia
  - (3) Cataract
  - (4) Hypermetropia

(SSC Stenographer (Grade 'C' & 'D') Exam. 26.09.2010)

- 417. When milk is churned, the cream separates from it due to:
  - (1) Frictional force
  - (2) Centrifugal force
  - (3) Gravitational force
  - Viscous forces

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 27.11.2010)

- **418.** Moving electric charge produces:
  - (1) magnetic field
  - (2) sound waves
  - (3) light rays
  - (4) heat waves

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 27.11.2010)

- 419. The S.I. unit of electric charge is:
  - (1) ampere (2) coulomb
    - (4) kelvin

(3) e.s.u (SSC Higher Secondary Level Data Entry Operator & LDC

Exam. 27.11.2010)

Exam. 27.11.2010)

- 420. Light beam which is highly directional is called:
  - (1) eraser (2) grazer
  - (3) maser (4) laser

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 27.11.2010)

- 421. Permissible noise level at Residential area during night time is:
  - (1) 45 dB (A) (2) 55 dB (A)
  - (3) 75 dB (A) (4) 80 dB (A) (SSC Higher Secondary Level Data Entry Operator & LDC
- 422. Energy in reflected light:
  - (1) does not depends on the angle of incidence
  - (2) increases with the increase in angle
  - (3) decreases with the increase in angle of incidence
  - (4) becomes maximum for angle of incidence equal to 45° (SSC Higher Secondary Level Data Entry Operator & LDC Exam. 27.11.2010)
- 423. Which colour of light shows maximum deviation when passed through a prism?
  - (1) White (2) Red
  - (3) Violet (4) Green

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (Ist Sitting)

- 424. The best material for the core of a transformer is
  - (1) stainless steel
  - (2) mild steel
  - (3) hard steel
  - (4) soft iron

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (Ist Sitting)

- **425.** In AC circuits, AC meters measure
  - (1) mean values
  - (2) rms values
  - (3) peak values
  - (4) mean square values

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (IInd Sitting)

- **426.** When a light wave is reflected from a mirror, there is a change in its
  - (1) frequency (2) amplitude
  - (3) wavelength (4) velocity

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (IInd Sitting)

- **427.** Solar energy is due to
  - (1) fusion reactions
  - (2) fission reactions
  - (3) combustion reactions
  - (4) chemical reactions

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (IInd Sitting)

- **428.** The width of depletion layer of a P-N junction
  - (1) decreases with light doping
  - (2) increases with heavy doping
  - (3) is independent of applied voltage
  - (4) is increased under reverse bias

(SSC Higher Secondary Level Data Entry Operator & LDC Exam. 28.11.2010 (IInd Sitting)

- 429. A body absorbs heat most if it is
  - (1) black and rough
  - (2) black and smooth
  - (3) white and rough
  - (4) white and smooth

(SSC Stenographer (Grade 'C' & 'D') Exam. 09.01.2011)

- 430. Safety fuse wire used in domestic electrical appliances is made of metal of low
  - (1) Resistance
  - (2) Melting point
  - (3) Specific gravity
  - (4) Conductance

(SSC Stenographer (Grade 'C' & 'D') Exam. 09.01.2011)

- 431. The following particles move with same kinetic energy. Which of them has maximum momentum?
  - (1) Electron (2) Proton
  - (3) Deutron
  - (4) Alpha Particle

(SSC Stenographer (Grade 'C' & 'D') Exam. 09.01.2011)

- **432.** A bottle of sodalime is grasped by the neck and swung briskly in a vertical circle, Near which portion of the bottle do the bubbles collect?
  - (1) Near the bottom
  - In the middle of the bottom
  - Near the neck
  - (4) Bubbles remain distributed uniformly

(SSC Stenographer (Grade 'C' & 'D') Exam. 09.01.2011)

- **433.** Water from soil enters into the root hairs owing to:
  - (1) Atmospheric pressure
  - (2) Capillary pressure
  - (3) Root pressure
  - (4) Osmotic pressure

(SSC Multi-Tasking (Non-Technical) Staff Exam. 20.02.2011)

- 434. The angle in which a cricket ball should be hit to travel maximum horizontal distance is:
  - (1) 60° with horizontal
  - (2) 45° with horizontal
  - (3) 30° with horizontal
  - (4) 15° with horizontal

(SSC Multi-Tasking (Non-Technical) Staff Exam. 20.02.2011)

- 435. The minimum number of geostationary satellites needed for uninterrupted global coverage is:
  - (1) 3
- (2) 2
- (3) 4
- (4) 1 (SSC Multi-Tasking (Non-Technical)
- Staff Exam. 20.02.2011) 436. The best conductor of electrici-
- ty among the following is:
  - (1) Copper
  - (2) Iron
  - (3) Aluminium
  - (4) Silver

(SSC Multi-Tasking (Non-Technical) Staff Exam. 20.02.2011)

- 437. Flight Recorder is technically called:
  - (1) Dark box
  - (2) Blind box
  - (3) Black box
  - (4) Altitude meter

(SSC Multi-Tasking (Non-Technical) Staff Exam. 20.02.2011)

- **438.** Which type of mirror is used in the head lights of vehicles?
  - (1) Plane mirror
  - Concave mirror
  - (3)Convex mirror
  - (4) Parabolic mirror

(SSC Multi-Tasking (Non-Technical) Staff Exam. 27.02.2011)

- 439. The height of a geo-stationary satellite from the Earth's surface is approximately:
  - (1) 36,000 km
  - (2) 42,000 km
  - (3) 30,000 km
  - (4) None of these

(SSC Multi-Tasking (Non-Technical) Staff Exam. 27.02.2011)

- 440. Decibel is a term connected with:
  - (1) air (2) water
  - (3) sound (4) soil

(SSC Multi-Tasking (Non-Technical) Staff Exam. 27.02.2011)

- **441.** As we go from Equator to North pole the value of 'g', the acceleration due to gravity
  - (1) remains the same
  - (2) decreases
  - (3) increases
  - (4) None of the above

(SSC CISF Constable (GD) Exam. 05.06.2011)

- 442. Shaving mirror is
  - (1) Convex (2) Concave
  - (3) Plane (4) Parabolic

(SSC CISF Constable (GD) Exam. 05.06.2011)

- 443. Magnifying Glass is basically a
  - (1) Plano-concave lens
  - (2) Concave lens
  - (3) Convex lens
  - (4) Cylindrical lens

(SSC Stenographer Grade 'C' & 'D' Exam. 16.10.2011)

- **444.** Water will **not** be vapourised if
  - (1) the temperature is 0°C
  - (2) the humidity is 0%
  - (3) the humidity is 100%

(4) the temperature is 100°C (SSC Stenographer Grade 'C' & 'D' Exam. 16.10.2011)

- 445. Which of the following is not a part of a CRT?
  - (1) Phosphor screen
  - (2) Shadow mask
  - (3) Electron gun
  - (4) Gas plasma

(SSC Stenographer Grade 'C' & 'D' Exam. 16.10.2011)

- 446. Railway tracks are banked on curves so that
  - (1) Necessary centrifugal force may be obtained from the horizontal component of the weight of the train
  - (2) No frictional force may be produced between the tracks and the wheels of the train

- (3) Necessary centripetal force may be obtained from the horizontal component of the weight of the train
- (4) The train may not fall down inwards

(SSC Stenographer Grade 'C' & 'D' Exam. 16.10.2011)

- **447.** The pitch of sound depends on
  - (1) Frequency(2) Intensity
  - (3) Velocity (4) Amplitude (SSC Stenographer Grade 'C' & 'D' Exam. Held on: 16.10.2011)
- **448.** Which of the following is a conductor of electricity?
  - (1) Rubber (2) Pure water
  - (3) Salt water (4) Benzene (SSC Stenographer Grade
- 'C' & 'D' Exam. 16.10.2011) **449.** The working of a rocket is based
  - on the principle of: (1) Conservation of momentum
    - (2) Conservation of mass
    - (3) Conservation of energy
    - (4) Conservation of angular momentum

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011 (Ist Sitting) (North Zone)

- **450.** A fuse wire is made of:
  - (1) an alloy of tin and copper
  - (2) an alloy of tin and lead
  - (3) an alloy of tin and aluminium
  - (4) an alloy of nickel and chromium

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011 (Ist Sitting) (North Zone)

- **451.** The energy that can harness heat stored below the earth's surface is known as;
  - thermal energy
  - nuclear energy
  - (3) tidal energy
  - (4) geo-thermal energy

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011

(Ist Sitting) (North Zone)

- **452.** The temperature of boiling water in a steam engine may be high because:
  - (1) there are dissolved substances in water
  - (2) there is low pressure inside the boiler
  - (3) there is high pressure inside the boiler
  - (4) the fire is at very high temperature

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011 (Ist Sitting) (North Zone)

- **453.** An instrument used to measure humidity is:
  - (1) Anemometer
  - Hygrometer
  - Thermometer
  - (4) Pyrheliometer

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011 (Ist Sitting) (North Zone)

- **454.** Fat can be separated from milk in a cream separator because of:
  - (1) Cohesive force
  - (2) Gravitational force
  - (3) Centripetal force
  - Centrifugal force

(SSC (10+2) Level Data Entry Operator & LCD Exam.04.12.2011 (Ist Sitting) (North Zone)

- 455. A transformer works with
  - (1) alternating current only
  - (2) direct current only
  - (3) both AC and DC
  - (4) any signal

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (North Zone)

- **456.** In the Earth, the weight of a body is maximum at the
  - (1) North Pole (2) South Pole
  - (3) Equator (4) Surface

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (North Zone)

- 457. The technique of collecting information about an object from a distance without making physical contact with it is
  - (1) Remote sensing
  - (2) Remote control
  - (3) Remote accessing
  - (4) Space shuttle

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (North Zone)

- 458. The head mirror used by ENT doctors is
  - (1) Concave (2) Convex
  - (3) Plane (4) Plano-convex (SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (North Zone)
- **459.** Direct conversion of solar energy with the use of a photo voltaic cell results in the production of
  - (1) Optical energy
  - (2) Electrical energy
  - (3) Thermal energy
  - Mechanial energy

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (Ist Sitting (East Zone)

- 460. A man inside an artificial satellite feels weightlessness because the force of attraction due to earth is
  - (1) zero at that place
  - (2) is balanced by the force of attraction due to moon
  - (3) equal to the centripetal force
  - (4) non-effective due to particular design of the satellite (SSC (10+2) Level Data Entry

Operator & LCD Exam. 04.12.2011 (Ist Sitting (East Zone)

- **461.** When a detergent is added to pure water, its surface tension
  - (1) increases
  - (2) decreases
  - remains constant (3)
  - (4) becomes infinite

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011

(Ist Sitting (East Zone) 462. Ultra violet light of Sun's radiation is prevented from reaching the earth's atmosphere by the laver of

- (1) Oxygen (2) Hydrogen
- (3) Ozone (4) Helium

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (Ist Sitting (East Zone)

- **463.** White clothes are cooler than black ones because they
  - (1) absorb all the light that reaches them
  - (2) reflect all the light that reaches them
  - (3) will not allow the light to penetrate
  - (4) cool the sunlight completely (SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)
- **464.** The primary colours in photog-
  - (1) Red. Blue. Yellow
  - (2) Red. Yellow. Green
  - (3) Red, Blue, Green
  - (4) Blue, Yellow, Green

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)

- **465.** A concave lens always forms
  - (1) a real image
  - (2) a virtual image
  - an image type which depends on object characteristics
  - an image type which depends on lens curvature

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)

- **466.** The blue colour of sky is due to
  - (1) reflection of sunlight
  - (2) refraction of sunlight
  - (3) scattering of shorter wavelengths of sunlight in the atmosphere
  - (4) scattering of longer wavelengths of sunlight in the atmosphere

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)

- **467.** Metal tea pots have wooden handles because
  - (1) wood is a bad conductor of heat
  - (2) it prevents electric shock
  - (3) it gives beauty to the pots
  - (4) it is hygienic

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)

- **468.** Ozone layer above the surface of Earth provides a shield against
  - (1) X-rays
  - (2) Ultra-violet rays
  - (3) Gamma rays
  - (4) Infra-red rays

(SSC (10+2) Level Data Entry Operator & LCD Exam. 04.12.2011 (IInd Sitting (East Zone)

- **469.** The Newton's First Law is also called as
  - (1) Law of moments
  - (2) Law of inertia
  - (3) Law of energy
  - (4) Law of momentum

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (Delhi Zone)

- **470.** If we want to calculate the pressure of a liquid at the bottom of a vessel, the quantity which is not required to determine it, is
  - (1) Height of the liquid column
  - (2) Surface area of the bottom of the vessel
  - (3) Density of the liquid
  - (4) Acceleration due to gravity at the bottom of the vessel

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (Delhi Zone)

- **471.** The water from a hand pump is warm in winter because
  - (1) Our body is cold in winter and the water appears to be warm
  - (2) The temperature inside the earth is higher than the atmospheric temperature
  - (3) The pumping process causes friction which warms up the water

(4) Inside water comes out and absorbs heat from the environment

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (Delhi Zone)

- **472.** A water tank appears shallower when it is viewed from top due to
  - (1) rectilinear propagation of light
  - (2) reflection
  - (3) total internal reflection
  - (4) refraction

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (Delhi Zone)

- **473.** For a ray of light to suffer total internal reflection it has to pass from :
  - (1) glass to water
  - (2) water to glass
  - (3) air to water
  - (4) air to glass

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (Delhi Zone)

- **474.** A stone is dropped from the roof of a house towards the ground. The kinetic energy of the stone will be maximum:
  - (1) just after it is dropped
  - (2) when it is just on the half-way
  - (3) just before it touches the ground
  - (4) when it touches the ground (SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (Delhi Zone)
- **475.** A black body can absorb radiations of :
  - (1) lower wavelengths only
  - (2) intermediate wavelengths only
  - (3) higher wavelengths only
  - (4) all wavelengths

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (Delhi Zone)

- **476.** Hydraulic machines work under the Principle of :
  - (1) Newton's Law
  - (2) Joules Law
  - (3) Pascal's Law
  - (4) Floatation Law

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (Delhi Zone)

- **477.** The Newton's First Law is also called as
  - (1) Law of moments
  - (2) Law of inertia
  - (3) Law of energy
  - (4) Law of momentum

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (East Zone)

- **478.** If we want to calculate the pressure of a liquid at the bottom of a vessel, the quantity which is **not** required to determine it, is
  - (1) Height of the liquid column
  - (2) Surface area of the bottom of the vessel
  - (3) Density of the liquid
  - (4) Acceleration due to gravity at the bottom of the vessel (SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (East Zone)
- **479.** The water from a hand pump is warm in winter because
  - (1) Our body is cold in winter and the water appears to be warm
  - (2) The temperature inside the earth is higher than the atmospheric temperature
  - (3) The pumping process causes friction which warms up the water
  - (4) Inside water comes out and absorbs heat from the environment

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (East Zone)

- **480.** A water tank appears shallower when it is viewed from top due to
  - (1) rectilinear propagation of light
  - (2) reflection
  - (3) total internal reflection
  - (4) refraction

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (Ist Sitting (East Zone)

- **481.** Ozone layer in the outer atmosphere helps us in
  - (1) reflecting radio waves and makes radio communication possible
  - (2) regulating the temperature of atmosphere
  - (3) absorbing cosmic ray parti-
  - (4) absorbing U-V radiations (SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (East Zone)

- **482.** Water is used in hot water bags because
  - (1) It is easily obtained
  - (2) It is cheaper and is not harmful
  - (3) It has high specific heat
  - (4) It is easy to heat water

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (East Zone)

- **483.** Water drops cannot stick to the oily surface due to
  - (1) lack of adhesive force
  - (2) surface tension
  - (3) cannot mix each other
  - (4) water is lighter than oil (SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011
- (IInd Sitting (East Zone)

  484. Which of the following proper-
- **484.** Which of the following properties is generally found in non-metals?
  - (1) Brittleness
  - (2) Conductivity
  - (3) Ductility
  - (4) Malleability

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (East Zone)

**485.** Match the following:

#### Process Changes

- a. Evaporation 1. Liquid into gas
- b. Sublimation 2. Gas into liquid
- c. Freezing 3. Solid into gas
- d. Melting 4. Solid into liquid
- a b c d
- (1) 1 2 4 3
- (2) 3 1 2 4
- (3) 2 1 4 3
- (4) 2 1 3 4

(SSC (10+2) Level Data Entry Operator & LCD Exam.11.12.2011 (IInd Sitting (East Zone)

- **486.** Electro-static precipitator is used to control
  - (1) Chemical Pollutants
  - (2) Radio-active Pollutants
  - (3) Water Pollutants
  - (4) Air Pollutants

(SSC (10+2) Level Data Entry Operator & LCD Exam. 11.12.2011 (IInd Sitting (East Zone)

- **487.** A micron is equal to
  - (1) 0.1 mm (2) 0.01 mm
  - (3) 0.001 mm(4) 0.0001 mm (SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912

(Ist Sitting)

- **488.**Persons suffering from myopia are advised to use
  - (1) convex lens
  - (2) concave lens
  - (3) plano-convex lens
  - (4) plano-concave lens

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912 (Ist Sitting)

- 489. A light year is a unit of
  - (1) time
  - (2) distance
  - (3) speed of light
  - (4) intensity of light

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912 (Ist Sitting)

- **490.** An instrument that records earthquakes is
  - (1) Ergograph
  - (2) Ediograph
  - (3) Thermograph
  - (4) Seismograph

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912

(IInd Sitting)

- **491.** Velocity of sound in air does not depend on
  - (1) Density of air
  - (2) Temperature of air
  - (3) Pressure of air
  - (4) Humidity of air

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912 (IInd Sitting)

- **492.** A dynamo is used to convert
  - (1) mechanical energy into electrical energy
  - (2) electrical energy into mechanical energy
  - (3) electrical energy into magnetic energy
  - (4) magnetic energy into mechanical energy

(SSC Constable (GD) & Rifleman (GD) Exam. 22.04.1912 (IInd Sitting)

- **493.** Conversion of sound energy into electrical energy is done by
  - (1) Solar cell
  - (2) Gramophone
  - (3) Microphone
  - (4) Loudspeaker

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(1st Sitting))

- **494.** A small gap is left at the joints of rails in a railway track to
  - (1) avoid the tracks being distorted due to seasonal temperature variation
  - (2) avoid the heating of tracks to high temperature

- (3) control the speed of train
- (4) keep the rails equidistant (SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (1st Sitting)
- **495.** Which of the following criterion is used for any metal to be used as a cooking material?
  - (1) More specific heat
  - (2) More thermal conductivity
  - (3) Less thermal conductivity
  - (4) Less electrical conductivity

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (1st Sitting)

- **496.** Least audible sound for most of the human ear is :
  - (1) 10.0 µ bar
  - (2) 0.0002 μ bar
  - (3) 0.005 µ bar
  - (4) 5.0 μ bar

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (2nd Sitting)

- **497.** Amount of water vapour (gaseous) in a given volume of air (cubic metre) is known as:
  - (1) Mixing ratio
  - (2) Relative humidity
  - (3) Absolute humidity
  - (4) Specific humidity

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (2nd Sitting))

- **498.** When a running car stops suddenly, the passengers tends to lean forward because of:
  - (1) centrifugal force
  - (2) inertia of rest
  - (3) inertia of motion
  - (4) gravitational force

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (2nd Sitting)

- **499.** Which of the following is a good conductor of heat but bad conductor of electricity?
  - (1) mica
- (2) asbestos

(3) celluloid (4) paraffin wax (SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(2nd Sitting))

- **500.** For which of the following substances, the resistance decreases with increase in temperature?
  - (1) Pure silicon (2) Copper
  - (3) Nichrome (4) Platinum

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(2nd Sitting))

- **501.** A solid needle placed horizontally on the surface of the water floats due to
  - (1) capillary action
  - (2) water pressure
  - (3) surface tension of water
  - (4) viscosity of water

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(2nd Sitting)

- **502.** When hot liquid is poured into a thick glass tumbler, it cracks because glass:
  - (1) is a bad conductor of heat so only inner surface expands
  - (2) has high temperature coefficient of expansion
  - (3) has a very low specific heat
  - (4) has low temperature coefficient of expansion

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(2nd Sitting)

- **503.** Hydro-electric power is a:
  - (1) non-renewable natural resource
  - (2) a mixture of renewable and non-renewable natural resource
  - (3) neither renewable nor non renewable resource
  - (4) renewable natural resource (SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (2nd Sitting)
- **504.** The oil in the wick of an oil lamp rises up due to:
  - (1) capillary action
  - (2) low viscosity of oil
  - (3) gravitational force
  - (4) pressure difference

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012

(2nd Sitting)

- **505.** A drop of liquid assumes spherical shape because:
  - (1) Intermolecular forces are strong in liquids
  - (2) A sphere has the least surface area for a given volume
  - (3) A sphere has the largest surface area for a given volume
  - (4) Inter molecular forces are weak in liquids

(SSC (10+2) Level Data Entry Operator & LDC Exam. 21.10.2012 (2nd Sitting)

- **506.** If cream is removed from milk, its density
  - (1) Increases
  - (2) Decreases
  - (3) Remains the same
  - (4) May increase or decrease (SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012 (1st Sitting)
- **507.** Convex mirrors are used as a rear view mirror in motor cycles because
  - (1) it forms real image
  - (2) it forms erect (upright) image
  - (3) it forms smaller image as compared with object
  - (4) All of the above

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012

(1st Sitting)

- **508.** The wall of a dam is made thicker at the bottom than at the top because the pressure exerted by the water on the wall
  - (1) depends on the thickness of the wall
  - (2) increases with height of the wall
  - (3) increases with depth of the wall
  - (4) depends on the area of the wall

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012 (1st Sitting)

**509.** Full form of CFL used in place of electric bulbs is

- (1) compact fluorescent lamp
  - (2) constantan filament lamp
  - (3) closed filament lamp
  - (4) closed fluorescent lamp

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012

(1st Sitting)

- **510.** Indicate the false statement about the resistance of a wire
  - (1) it depends on material of wire
  - (2) it is directly proportional to the length of wire
  - (3) it is directly proportional to the area of cross-section of wire
  - (4) resistance of metallic wire increases with increase in temperature

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012 (1st Sitting)

- **511.** Which electromagnetic radiation is used for satellite communication?
  - (1) Ultraviolet
  - (2) Infrared
  - (3) Microwave
  - (4) Millimeter wave

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012

(1st Sitting)

- **512.** Solar cells work on the principle of
  - (1) photovoltaic effect
  - (2) photoelectric effect
  - (3) photoconductive effect
  - (4) photosynthesis

(SSC (10+2) Level Data Entry Operator & LDC Exam. 28.10.2012

(1st Sitting) **513.** Materials for rain proof coats and

- 513. Materials for rain proof coats and tents owe their water proof properties to
  - (1) Surface tension
  - (2) Viscosity
  - (3) Specific gravity
  - (4) Elasticity

(SSC (10+2) Level Data Entry Operator & LDC Exam. 04.11.2012 (2nd Sitting)

- **514.** X-rays region lies between
  - (1) Ultraviolet and visible region
  - (2) Visible and infra-red region
  - (3) Gamma-rays and ultraviolet region
  - (4) Short radio waves and long radio waves

(SSC (10+2) Level Data Entry Operator & LDC Exam. 04.11.2012 (2nd Sitting)

- **515.** A star appears twinkling in the sky because of
  - (1) scattering of light by atmosphere
  - (2) reflection of light by atmosphere
  - (3) refraction of light by atmosphere
  - (4) diffraction of light by atmosphere

(SSC (10+2) Level Data Entry Operator & LDC Exam. 04.11.2012 (2nd Sitting)

- **516.** When two ice cubes are pressed together, they join to form one cube. Which one of the following helps to hold them together?
  - (1) Hydrogen bond formation
  - (2) Vander waals forces
  - (3) Covalent attraction
  - (4) Dipole interaction

(SSC Graduate Level Tier-I Exam. 11.11.2012 (1st Sitting)

- **517.** Microphone is a device which transforms the
  - (1) sound signal into current signal
  - (2) current signal into sound signal
  - (3) sound signal into light signal
  - (4) light signal into sound signal (SSC Graduate Level Tier-I

Exam. 11.11.2012 (1st Sitting)

- **518.** Pressure Cooker cooks faster because
  - (1) boiling point decreases with rise of pressure
  - (2) it cooks the food at low pressure
  - (3) higher temperature is attained for cooking
  - (4) the material of the cooker is a good conductor

(SSC Graduate Level Tier-I Exam. 11.11.2012 (1st Sitting)

- **519.** When a strong beam of light is passed through a colloidal solution, the light will
  - (1) be scattered
  - (2) pass unchanged
  - (3) be absorbed
  - (4) be reflected

(SSC Graduate Level Tier-I Exam. 11.11.2012 (1st Sitting)

- **520.** The dynamo converts
  - (1) mechanical energy into electrical energy
  - (2) electrical energy into mechanical energy
  - (3) mechanical energy into magnetic energy
  - (4) magnetic energy into mechanical energy

(SSC Delhi Police Sub-Inspector (SI) Exam. 19.08.2012)

- **521.** It is easier for a man to swim in sea water, than in river water because
  - (1) the density of sea water is lesser than the density of river water
  - (2) the density of sea water is more than the density of river water
  - (3) the sea is-deeper than the river
  - (4) the sea is wider than the river (SSC Delhi Police Sub-Inspector (SI) Exam. 19.08.2012)
- **522.** In the remote control of television, electromagnetic waves used are
  - (1) ultraviolet (2) microwave
  - (3) radiowave (4) infrared (SSC Delhi Police Sub-Inspec

(SSC Delhi Police Sub-Inspector (SI) Exam. 19.08.2012)

- **523.** The waveform of a certain signal can be studied by
  - (1) Spectrometer
  - (2) Cathode ray oscilloscope
  - (3) p n junction diode
  - (4) Sonometer

(SSC Multi-Tasking Staff Exam. 10.03.2013, Ist Sitting: Patna)

- **524.** A wire carrying current is
  - (1) positively charged
  - (2) negatively charged
  - (3) neutral
  - (4) charged with a type depending upon current strength

(SSC Multi-Tasking Staff Exam. 10.03.2013, Ist Sitting: Patna)

- **525.** A light ray travelling from denser to rarer medium at an angle of incidence more than critical angle of concerned media pair suffers.
  - (1) reflection
  - (2) refraction
  - (3) diffraction
  - (4) total internal reflection

(SSC Multi-Tasking Staff Exam. 10.03.2013)

- **526.** The characteristic invalid for heat radiation is that it travels :
  - (1) in a straight line
  - (2) in all directions
  - (3) with the speed of light
  - (4) heating the medium through which it passes

(SSC Multi-Tasking Staff Exam. 10.03.2013)

- **527.** The method of magnetisation is:
  - (1) hammering a magnet
  - (2) heating a magnet
  - (3) passing direct current through it
  - (4) passing alternating current through it

(SSC Multi-Tasking Staff Exam. 10.03.2013)

- **528.** Water is not suitable as a calorimetric substance because it :
  - (1) has high specific heat
  - (2) is a good conductor
  - (3) has high boiling point
  - (4) low latent heat of vapourization (SSC Multi-Tasking Staff Exam. 10.03.2013)
- **529.** When a body falls from an aeroplane, there is increase in its
  - (1) Kinetic energy
  - (2) Mass
  - (3) Acceleration
  - (4) Potential energy

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

- **530.** In a water lifting electric pump, we convert
  - (1) Electrical energy into Potential energy
  - (2) Kinetic energy into Electrical energy
  - (3) Kinetic energy into Potential energy
  - (4) Electrical energy into Kinetic energy

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

- 531. The type of mirror used in automobiles to see the traffic on the rear side is
  - (1) Concave (2) Plano-Convex
  - (3) Plane (4) Convex

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

**532.** Which, of the following radiations has the least wavelength?

- (1) X-rays (2) a-rays
- (3) g-rays (4) b-rays

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

- **533.** The earth is a
  - (1) good reflector of heat
  - (2) non-absorber of heat
  - (3) good absorber and good radiator of heat
  - (4) bad absorber and bad radiator of heat

(SSC Multi-Tasking Staff Exam. 17.03.2013, Ist Sitting)

- **534.** Magnetic keepers are pieces of
  - (1) Nickel (
    - (2) Cobalt

(3) Steel (4) Soft iron

(SSC Multi-Tasking Staff Exam. 17.03.2013, IInd Sitting)

**535.** When a piece of stone is immersed in water, it displaces water of equal

- (1) Density
- (2) Specific gravity
- (3) Mass

(4) Volume (SSC Multi-Tasking Staff

Exam. 17.03.2013, IInd Sitting)

- **536.** The motion of a body that repeats itself after a regular interval of time is
  - (1) a periodic motion
  - (2) a simple harmonic motion
  - (3) an aperiodic motion
  - (4) an oscillatory motion

(SSC Multi-Tasking Staff Exam. 17.03.2013, IInd Sitting)

- **537.** A radioactive substance does not undergo any change (in mass or charge) during
  - (1) gamma-emission
  - (2) oxidation
  - (3) alpha-emission
  - (4) beta-emission

(SSC Multi-Tasking Staff Exam. 17.03.2013, IInd Sitting)

- 538. One bar is equal to
  - (1)  $10^3$  Pa (2) 100 Pa
  - (3) 10<sup>5</sup> Pa
- (4)  $10^4$  Pa

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

- **539.** Specific gravity is defined as the ratio of
  - (1) density of the substance to the density of water
  - (2) density of the substance to the density of water at 0°C
  - (3) density of water at 4°C to the density of the substance
  - (4) density of the substance to the density of water at 4°C

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

- **540.** A barometer is kept inside a bell jar. Air is slowly pumped out of the jar.
  - (1) The mercury level starts rising
  - (2) The mercury level starts falling
  - (3) The mercury level does not change
  - (4) The bell jar breaks up

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

- **541.** The wavelength at which the peak of intensity of blackbody radiation occurs
  - (1) increases with increase in temperature
  - (2) decreases with increase in temperature
  - (3) is the same at all temperatures
  - (4) does not follow any pattern as temperature changes

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

- **542.** Man perceives sound vibrations in the frequency ranges of
  - (1) 0 5 Hz (2) 6 10 Hz
  - (3) 11 15 Hz
  - (4) 20 20000 Hz

(SSC Multi-Tasking Staff Exam. 17.03.2013, Kolkata Region)

- **543.** Certain substances loose their electrical resistance completely at super low temperature. Such substances are called.
  - (1) Super conductors
  - (2) Semi conductors

- (3) Dielectrics
- (4) Perfect conductors (SSC CGL Tier-I Exam. 19.10.2014

TF No. 022 MH 3)

- **544.** A metal ball and a rubber ball, both having the same mass, strike a wall normally with the same velocity. The rubber ball rebounds and the metal ball does not rebound. It can be concluded that
  - (1) The rubber ball suffers greater change in momentum
  - (2) The metal ball suffers greater change in momentum
  - (3) Both suffer the same change in momentum
  - (4) The initial momentum of the rubber ball is greater than that of the metal ball

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, Ist Sitting TF No. 333 LO 2)

- **545.** The oil in the wick of lamp rises due to
  - (1) Pressure difference
  - (2) Pheonomenon of capillarity
  - (3) Low viscosity of oil
  - (4) Force of cohesion

(SSC Multi-Tasking Staff Exam. 24.03.2013, 1st Sitting)

- **546.** Kepler's law of planetary motion states that the square of the time period is proportional to the
  - (1) semi-major axis
  - (2) square of the semi-major axis
  - (3) cube of the semi-major axis
  - (4) fourth power of the semi-major axis

(SSC Multi-Tasking Staff Exam. 24.03.2013, 1st Sitting)

- **547.** Radioactive elements can be traced out in living cell through a technique called
  - (1) Centrifugation
  - (2) Chromatography
  - (3) Auto radiography
  - (4) All the above

(SSC Multi-Tasking Staff Exam. 24.03.2013, Ist Sitting)

- **548.** A NOT gate can be implemented by:
  - (1) a single diode
  - (2) two diodes
  - (3) a single resistor
  - (4) a single transistor

(SSC Graduate Level Tier-I Exam. 21.04.2013, 1st Sitting)

- **549.** Persistence of vision is the Principle behind:
  - (1) Binocular (2) Cinema
  - (3) Periscope (4) Camera

(SSC Graduate Level Tier-I Exam. 21.04.2013, Ist Sitting)

- **550.** Time of exposure required for taking photograph of an object depends upon the
  - (1) brightness of the object
  - (2) skill of photographer
  - (3) proximity of object
  - (4) size of the object

(SSC Graduate Level Tier-I Exam. 21.04.2013, Ist Sitting)

- **551.** The ordinary and maximum tolerance limit of sound by human being is
  - (1) 50 db to 70 db (decibel)
  - (2) 60 db to 80 db (decibel)
  - (3) 65 db to 75 db (decibel)
  - (4) 70 db to 85 db (decibel)

(SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting)

- **552.** Which one of the following is responsible for the working of Newton's colour disc experiment?
  - (1) Formation of pure spectra
  - (2) Formation of impure spectra
  - (3) Persistence of vision
  - (4) Principle of complementary colour

(SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting)

- **553.** The dimension MLT $^{\!-2}$  corresponds to
  - (1) force (2) work done
  - (3) acceleration (4) velocity

(SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting)

- **554.** Fiber optics cable used in communication, works on the principle of
  - (1) regular reflection of light
  - (2) diffuse reflection of light
  - (3) refraction of light
  - (4) total internal reflection of light (SSC Graduate Level Tier-I Exam. 21.04.2013, IInd Sitting)
- **555.** 'Farad' is the unit of:
  - (1) Capacitance (2) Inductance
  - (3) Resistance (4) Conductance (SSC Graduate Level Tier-I Exam. 21.04.2013)

- **556.** Steel is more elastic than rubber because it:
  - (1) requires larger deforming force
  - (2) is never deformed
  - (3) is deformed very easily
  - (4) is harder than rubber

(SSC Graduate Level Tier-I Exam. 21.04.2013)

- **557.** Solids which conduct electricity at higher temperature but not at lower temperature are called
  - (1) super-conductor
  - (2) metallic-conductor
  - (3) semi-conductor
  - (4) insulator

(SSC Graduate Level Tier-I Exam. 21.04.2013)

- 558. A television channel is characterised by
  - (1) frequency of transmitted signal
  - (2) velocity of transmitted signal
  - (3) physical dimension of television screen
  - (4) size of picture tube

(SSC Graduate Level Tier-I Exam. 21.04.2013)

- **559.** The density of water is 1 g/cc. This is strictly valid at
  - (1) 0°C

(2) 4°C

(3) 25°C

(4) 100°C

(SSC Graduate Level Tier-I Exam. 21.04.2013)

- 560. In radio-communication, the signals emitted by transmitting antenna are reflected on
  - (1) stratosphere(2) ozonosphere
  - (3) ionosphere (4) troposphere

(SSC Graduate Level Tier-I Exam. 21.04.2013)

- **561.** Outside of cooking utensils are generally left black from below because
  - (1) it is difficult to clean daily.
  - (2) black surface is a good conductor of heat.
  - (3) black surface is a poor conductor of heat.
  - (4) black surface is a good absorber of heat.

(SSC Constable (GD)

Exam. 12.05.2013, Ist Sitting)

- 562. The colour of sky appears blue due to
  - (1) reflection (2) refraction
  - (3) scattering of shorter wave lengths
  - (4) dispersion

(SSC Constable (GD) Exam. 12.05.2013, Ist Sitting)

- **563.** What is a compound microscope? (1) A microscope that has one
  - lens. (2) A microscope that has two
  - sets of lenses: an occular lens and an eyepiece.
  - (3) A microscope whose lenses are concave.
  - (4) A microscope whose lenses are convex.

(SSC Constable (GD) Exam. 12.05.2013)

- **564.** Sensitivity of the human eye is maximum in the
  - (1) Violet region (2) Green region
  - (3) Blue region (4) Red region

(SSC Constable (GD) Exam. 12.05.2013)

- **565.** The speed of light in air is
  - $(1) 3 \times 10^8 \,\mathrm{m/s}$  (2)  $3 \times 10^{-8} \,\mathrm{cm/s}$
  - $(3) 8 \times 10^3 \,\mathrm{m/s}$  (4) Infinity

(SSC Constable (GD) Exam. 12.05.2013)

- **566.** Photon is the fundamental unit/ quantum of
  - (1) gravitation (2) electricity
  - (3) magnetism (4) light

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- **567.** A liquid disturbed by stirring comes to rest due to
  - (1) density
  - (2) surface tension
  - (3) viscosity
  - (4) centripetal force

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- **568.** In Astrophysics, what name is given to a hypothetical hole in outer space from which stars and energy emerge?
  - (1) Black hole (2) Ozone hole
  - (3) Asteroid belt (4) White hole

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- 569. Light scattering takes place in
  - (1) Colloidal solutions
  - (2) Acidic solutions
  - (3) Electrolyte solutions
  - (4) Basic solutions

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- **570.** The term reactor referred to in waste water treatment is
  - (1) Vessel
- (2) Settling tank
- (3) Clarifier
- (4) Aeration tank

(SSC Graduate Level Tier-I

Exam. 19.05.2013)

- **571.** A good conductor while carrying current is
  - (1) alternately charged positive and negative
  - (2) negatively charged
  - (3) positively charged
  - (4) electrically neutral

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- 572. The device used for measuring the wavelength of X-rays is
  - (1) G.M. Counter
  - (2) Cyclotron
  - (3) Bragg Spectrometer
  - (4) Mass Spectrometer

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- **573.** Alpha particle is the nucleus of an atom of
  - (1) Lithium (2) Hydrogen
  - (3) Helium

(4) Oxygen

(SSC Graduate Level Tier-I Exam. 19.05.2013)

- **574.** Which of the following supports particle nature of photons?
  - (1) Diffraction (2) Polarization
  - (3) Photoelectric effect
  - (4) Interference

(SSC CAPFs SI & CISF ASI Exam. 23.06.2013)

- **575.** Indicate the correct arrangement for electromagnetic radiation in order of their increasing wavelength.
  - (1) Microwave, infrared, visible. X-rays
  - (2) X -rays, visible, infrared, microwave
  - (3) Visible, infrared, microwave, X-ravs
  - (4) X rays, infrared, visible, microwave.

(SSC CAPFs SI & CISF ASI Exam. 23.06.2013)

- **576.** Instrument used to study the behaviour of a vibrating string is :
  - (1) Barometer (2) Hydrometer

(3) Hygrometer (4) Sonometer (SSC CAPFs SI & CISF ASI Exam. 23.06.2013)

- **577.** What is a neuron?
  - (1) Basic unit of energy
  - (2) Particle released during radioactivity
  - (3) The anti-particle of neutron
  - (4) Basic unit of nervous system (SSC (10+2) Level Data Entry Operator & LDC Exam. 20.10.2013)

- **578.** Which of the following is **not** caused by atmospheric refraction of light?
  - (1) Sun appearing red at sunset
  - (2) Twinkling of stars at night
  - (3) Sun appearing higher in the sky than it actually is
  - (4) Sun becoming visible two or three minutes before actual sunrise (SSC (10+2) Level Data Entry Operator & LDC Exam. 20.10.2013)
- 579. Matter waves are
  - (1) de Broglie waves
  - (2) Electromagnetic waves
  - (3) Transverse waves
  - (4) Longitudinal waves

(SSC (10+2) Level Data Entry Operator & LDC Exam. 20.10.2013)

- **580.** When the milk is churned vigorously the cream from it is separated out due to
  - (3) Centripetal force
  - (2) Gravitational force
  - (3) Frictional force
  - (4) Centrifugal force

(SSC (10+2) Level Data Entry Operator & LDC Exam. 20.10.2013)

- **581.** Gas thermometers are more sensitive than the liquid thermometers because the gases
  - (1) have large coefficient of expansion
  - (2) are lighter
  - (3) have low specific heat
  - (4) have high, specific heat

(SSC (10+2) Level Data Entry Operator & LDC Exam. 20.10.2013)

- **582.** A man standing on a edge of a cliff throws a stone vertically upwards with a certain speed. He then throws another stone downwards with the same speed. Find the ratio of the speeds of the two stones when they hit the ground.
  - (1) 1 : 1
  - (2) 1 : 2
  - (3) 1 : 4
  - (4) Cannot be found from the given information.

(SSC (10+2) Level Data Entry Operator & LDC Exam. 27.10.2013)

- **583.** Dioptere is the unit of
  - (1) power of a lens
  - (2) focal length of a lens
  - (3) light intensity
  - (4) sound intensity

(SSC (10+2) Level Data Entry Operator & LDC Exam. 27.10.2013)

- **584.** When a stone is thrown in the calm water of a pond the waves produced on the surface of water in the pond are
  - (1) longitudinal
  - (2) transverse
  - (3) both longitudinal and transverse
  - (4) waves are not produced

(SSC (10+2) Level Data Entry Operator & LDC Exam. 27.10.2013)

- **585.** In a filament type light bulb most of the electric power consumed appears as
  - (1) visible light
  - (2) infra-red rays
  - (3) ultra-violet rays
  - (4) fluorescent light

(SSC (10+2) Level Data Entry Operator & LDC Exam. 27.10.2013)

- **586.** A white and smooth surface is
  - (1) good absorber and good reflector of heat
  - (2) bad absorber and good reflector of heat
  - (3) good absorber and bad reflector of heat
  - (4) bad absorber and bad reflector of heat

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, Ist Sitting)

- **587.** When a body is immersed in a liquid, the force acting on it is
  - (1) Upthrust
  - (2) Weight
  - (3) Mass
  - (4) Both (1) and (2)

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, Ist Sitting)

- **588.** When two semiconductors of pand n-type are brought in contact, they form p-n junction which acts like a/an
  - (1) Conductor (2) Oscillator
  - (3) Rectifier
- (4) Amplifier

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, Ist Sitting)

**589.** The mass of a body measured by a physical balance in a lift at rest is found to be m. If the lift is going up with an acceleration a, its mass will be measured as

1) m 
$$\left(1 - \frac{a}{g}\right)$$
 (2) m  $\left(1 + \frac{a}{g}\right)$ 

- (3) m
- (4) zero

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, Ist Sitting)

- 590. Ohm's law is valid in case of
  - (1) semiconductor
  - (2) conductor
  - (3) superconductor
  - (4) insulator

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, IInd Sitting)

- **591.** The Laser is a beam of radiations which are
  - (1) Non-coherent and monochromatic
  - (2) Coherent and monochromatic
  - (3) Non-coherent and non-monochromatic
  - (4) Coherent and non-monochromatic

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, IInd Sitting)

- **592.** Centigrade and Fahrenheit temperatures are the same at
  - (1)  $32^{\circ}$
- (2) 40° (4) -40°
- (3) -273°

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, IInd Sitting)

- **593.** The dimensional formula for universal gravitational constant is
  - (1)  $M^{-1} L^3 T^2$
- (2)  $M L^2 T^{-2}$
- (3) M<sup>-2</sup>
- (4)  $M^{-1} L^3 T^{-2}$

(SSC (10+2) Level Data Entry Operator & LDC Exam. 10.11.2013, IInd Sitting)

- **594.** Rocket works on the principle of
  - (1) Newton's Third Law
  - (2) Newton's First Law
  - (3) Newton's Second Law
  - (4) Archimedes Principle

(SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014)

- **595.** The weight of a body acts through the centre of
  - (1) gravity
  - (2) mass
  - (3) both (1) and (2)
  - (4) buoyancy

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting)

- **596.** A wheel-barrow is an example of
  - (1) class III lever
  - (2) pulley system
  - (3) class I lever
  - (4) class II lever
  - (SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting)

- **597.** Magnetic keepers are used to protect magnets from :
  - (1) Earth's magnetic field
  - (2) effect of other magnets
  - (3) self-demagnetization
  - (4) demagnetization due to heating
    - (SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014)
- **598.** An object which absorbs all colours and reflects none appears:
  - (1) white
- (2) grey
- (3) blue
- (4) black

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014)

- **599.** The locomotion of insects to the source of light is called :
  - (1) Phototropic
  - (2) Hydrotropic
  - (3) Phototactic
  - (4) Thermotactic

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014)

- **600.** The splitting of white light into its components is due to:
  - (1) reflection
  - (2) refraction
  - (3) transmission
  - (4) dispersion

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014)

- **601.** A small drop of oil spreads over water because :
  - (1) oil has a higher surface tension
  - (2) water has a higher surface tension
  - (3) oil has a higher viscosity
  - (4) water has a higher viscosity (SSC Multi-Tasking (Non-Tech.) Staff Exam. 16.02.2014)
- **602.** Which one among the following doesn't have any effect on velocity of sound?
  - (1) Pressure
  - (2) Temperature
  - (3) Humidity
  - (4) Density

(SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014)

- **603.** The motion of a body around a circular path is an example of
  - (1) Uniform velocity, variable acceleration
  - (2) Uniform speed, uniform velocity
  - (3) Uniform speed, variable velocity

(4) Uniform speed, variable acceleration

(SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014)

- **604.** A current carrying conductor is associated with
  - (1) a magnetic field
  - (2) an electric field
  - (3) an electro-magnetic field
  - (4) an electrostatic field

(SSC Multi-Tasking Staff (Patna) Exam. 16.02.2014)

- **605.** Green house effect is the heating up of the Earth's atmosphere which is due to
  - (1) the ultraviolet rays
  - (2) γ-rays
  - (3) the infra-red rays
  - (4) X-rays

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting)

- **606.** If the phase difference between two points is 120° for a wave with velocity of 360 m/ and frequency 500 Hz, then path difference between the two points is
  - (1) 1 cm
- (2) 6 cm
- (3) 12 cm (4) 24 cm

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, Ist Sitting TF No. 333 LO 2)

- **607.** Clouds float in the atmosphere because of their
  - (1) low pressure
  - (2) low density
  - (3) low viscosity
  - (4) low temperature

(SSC Multi-Tasking (Non-Tech.) Staff Exam. 23.02.2014, IInd Sitting)

- **608.** The threshold frequency is the frequency below which :
  - (1) photo current increases with voltage
  - (2) photo current decreases with voltage
  - (3) photo electric emission is not possible
  - (4) photo current is constant

(SSC CGL Tier-I

Re-Exam-2013, 27.04.2014)

- **609.** Tesla is a unit of magnetic :
  - (1) flux
- (2) induction
- (3) moment
- (4) field

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

- **610.** The damage of the human body due to radiation (X-rays or  $\gamma$ -rays etc.) is measured in :
  - (1) Rems
- (2) Roentgen
- (3) Curie
- (4) Rads

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

**611.** Transition ions absorb light in :

- (1) infrared region
  - (2) ultraviolet region
  - (3) microwave region
  - (4) visible region

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014) (SSC CGL Tier-I

Re-Exam-2013, 27.04.2014)

- **612.** Flywheel is an important part of a steam engine because it :
  - (1) accelerates the speed of the engine
  - (2) helps the engine in keeping the speed uniform
  - (3) decreases the moment of inertia
  - (4) gives strength to the engine (SSC CGL Tier-I Re-Exam-2013, 27.04.2014)
- **613.** The freezing point of fresh water is \_\_\_\_\_.
  - (1) 4°C
    - (2) 3°C
  - (3) 5°C
- (4) 0°C

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

- **614.** The unit of noise pollution (level) is:
  - (1) decibel
- (2) decimal
- (3) ppm
- (4) None of these (SSC CGL Tier-I

Re-Exam-2013, 27.04.2014)

- 615. Relative humidity is expressed as
  - (1) Grams
- (2) Kilograms

Re-Exam-2013, 27.04.2014)

(3) Percentage (4) Ratio

(SSC CGL Tier-I

- **616.** A real gas can act as an ideal gas in
  - (1) high pressure and low temperature
  - (2) low pressure and high temperature
  - (3) high pressure and high temperature
  - (4) low pressure and low temperature

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

- 617. According to special theory of relativity the mass of a particle
  - (1) increases with increase in velocity with respect to an observer.
  - (2) decreases with increase in velocity.
  - (3) decreases with decrease in velocity.
  - (4) is independent of its veloci-

(SSC CGL Tier-I Re-Exam-2013, 27.04.2014)

- **618.** The motion of the wheels of a bullock-cart while moving on the road is an example of
  - (1) Oscillatory and rotatory mo-
  - (2) Oscillatory and translatory motion
  - (3) Translatory and rotatory motion
  - (4) Translatory motion only

(SSC CGL Tier-I

Re-Exam-2013, 27.04.2014)

- **619.** Purity of a metal can be determined with the help of
  - (1) Pascal's law
  - (2) Boyle's law
  - (3) Archimedes principle
  - (4) Conservation of mass principle

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- 620. If both the mass and the velocity of a body is increased to twice of their magnitude, the kinetic energy will increase by
  - (1) 2 times
- (2) 4 times
- (3) 8 times
- (4) 16 times

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- 621. Two bodies kept at a certain distance feel a gravitational force F to each other. If the distance between them is made double the former distance, the force will be
  - (1) 2F
- (2)  $\frac{1}{2}$  F
- (3) 4F
- (4)  $\frac{1}{4}$  F

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- **622.** Stationary wave is formed by
  - (1) a transverse wave superposing a longitudinal wave
  - two waves of the same speed superposing
  - (3) two waves of same frequency travelling in the same direction
  - (4) two waves of same frequency travelling in the opposite direction

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- **623.** The work done by the string of a simple pendulum during one complete oscillation is equal to
  - (1) Total energy of the pendulum
  - (2) Kinetic energy of the pendu-
  - (3) Potential energy of the pendulum
  - (4) Zero

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- **624.** The minimum number of forces to keep a particle in equilibrium is
  - (1) 1
- (2)2

(3) 3(4) 4

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- **625.** A system exhibiting S.H.M. must possess
  - (1) Elasticity as well as inertia
  - (2) Elasticity, inertia and an external force
  - (3) Elasticity only
  - (4) Inertia only

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- 626. A needle or a pin floats on the surface of water because of
  - (1) Surface tension
  - (2) Surface energy
  - (3) Viscosity
  - (4) Adhesive force

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam. 22.06.2014)

- **627.** Super conductors are substances that
  - (1) offer minimum resistance to flow of electric current
  - (2) conduct electricity at low temperature
  - (3) conduct electricity at high temperature
  - (4) offer high resistance to the flow of electric current

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014, Ist Sitting)

- 628. A thin oil film on a water surface appears coloured because of
  - (1) reflection (2) interference
  - (3) diffraction (4) polarization (SSC CGL Tier-I Re-Exam. (2013)

20.07.2014, Ist Sitting)

- 629. The 'Greenhouse effect' is mainly due to increase in atmospheric
  - (1) Ozone
  - (2) Nitrogen
  - (3) Sulphur dioxide
  - (4) Carbon dioxide

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014. Ist Sitting)

- 630. In a conductor
  - (1) there is no conduction band
  - (2) the forbidden energy gap is very wide
  - (3) the forbidden energy gap is very narrow
  - (4) the valence band and the conduction band overlap each other

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014, IInd Sitting)

- **631.** The moment of inertia of a body does not depend upon its
  - (1) axis of rotation
  - (2) angular velocity
  - (3) form of mass
  - (4) distribution of mass

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014, IInd Sitting)

- 632. To open a door easily, the handle should be fixed
  - (1) near the hinges
  - (2) away from mid-point opposite to hinges
  - (3) in the middle
  - (4) None of these

(SSC CGL Tier-I Re-Exam. (2013) 20.07.2014, IInd Sitting)

- 633. Optical fibre works on the principle of
  - (1) refraction
  - (2) scattering
  - (3) interference
  - (4) total internal reflection

(SSC GL Tier-I Exam. 19.10.2014, Ist Sitting)

- 634. The colours of stars depend on their
  - (1) temperature
  - (2) distance
  - (3) radius
  - (4) atmospheric pressure

(SSC GL Tier-I Exam. 19.10.2014, Ist Sitting)

- 635. The sky appears blue due to
  - (1) Rayleigh scattering
  - (2) Mie scattering
  - (3) Back scattering
  - (4) None of the above

(SSC GL Tier-I Exam. 19.10.2014)

- **636.** A particle is moving in a uniform circular motion with constant speed v along a circle of radius r. The acceleration-of the particle is
  - (1) zero
- (2)  $\frac{V}{r}$
- (3)  $\frac{V}{r^2}$
- (4)  $\frac{V^2}{r}$

(SSC GL Tier-I Exam. 19.10.2014)

- **637.** Which of the following devices can be used to detect radiant heat?
  - (1) Liquid thermometer
  - (2) Six's maximum and minimum thermometer
  - (3) Constant volume air thermometer
  - (4) Thermopile

(SSC GL Tier-I Exam. 19.10.2014)

- **638.** In which one of the following the phenomenon of total internal reflection of light is used?
  - (1) Formation of mirage
  - (2) Working of binoculars
  - (3) Formation of rainbow
  - (4) Twinkling of stars

(SSC GL Tier-I Exam. 19.10.2014)

- **639.** Period of oscillation of 3 cm microwaves in seconds is
  - (1)  $1 \times 10^{10}$
- (2)  $1 \times 10^{-10}$
- (3) 0.01
- (4) 0.001

(SSC GL Tier-I Exam. 19.10.2014)

- **640.** The device used to convert solar energy into electricity is
  - (1) Photovoltaic cell
  - (2) Daniell cell
  - (3) Electrochemical cell
  - (4) Galvanic cell

(SSC GL Tier-I Exam. 26.10.2014)

- **641.** Light year is a unit of
  - (1) Light
- (2) Current
- (3) Distance (4) Time

(SSC GL Tier-I Exam. 26.10.2014)

- 642. The word 'insolation' means
  - (1) matters which insulate
  - (2) incoming solar radiation
  - (3) insoluble matters
  - (4) None of the above

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, Patna Region : Ist Sitting)

- **643.** While ascending a hill, the driver of the vehicle keeps the gear ratio
  - (1) equal to 1
  - (2) less than 1
  - (3) greater than 1
  - (4) either equal to or greater than 1

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, Patna Region : Ist Sitting)

- **644.** A wire of resistance R is cut into 'n' equal parts. These parts are then connected in parallel. The equivalent resistance of the combination will be
  - (1) nR
- $(2)\frac{R}{r}$
- (3)  $\frac{n}{R}$
- (4)  $\frac{R}{n^2}$

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, Patna Region : Ist Sitting)

- **645.** A moving neutron collides with a stationary α particle. The fraction of the kinetic energy lost by the neutron is
  - (1)  $\frac{1}{4}$
- (2)  $\frac{1}{16}$
- (3)  $\frac{9}{25}$
- (4)  $\frac{16}{25}$

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, IInd Sitting)

- **646.** Which of these waves can be polarized?
  - (1) Sound waves in air
  - (2) Longitudinal waves on a string
  - (3) Transverse waves on a string
  - (4) Light waves

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, IInd Sitting)

- **647.** The unit of Planck's constant is
  - (1) Js
- (2)  $Js^{-2}$
- (3) J/s
- $(4) Js^2$

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, IInd Sitting)

- **648.** If a wire of resistance R is melted and recast to half of its length, then the new resistance of the wire will be
  - (1)  $\frac{R}{4}$
- $(2) \frac{R}{2}$
- (3) R
- (4) 2R

(SSC CHSL (10+2) DEO & LDC Exam. 02.11.2014, IInd Sitting)

- **649.** Golden view of sea shell is due to
  - (1) Diffraction (2) Dispersion
  - (3) Polarization (4) Reflection (SSC CHSL (10+2) DEO & LDC Exam. 09.11.2014)
- **650.** An object covers distance which is directly proportional to the square of the time. Its accelaration is
  - (1) increasing (2) decreasing
  - (3) zero (4) constant

(SSC CHSL (10+2) DEO & LDC Exam. 09.11.2014)

- **651.** If the horizontal range of a projectile is four times its maximum height, the angle of projection is
  - (1) 30°
- (2)  $45^{\circ}$
- (3)  $\sin^{-1}\left(\frac{1}{4}\right)$  (4)  $\tan^{-1}\left(\frac{1}{4}\right)$

(SSC CHSL (10+2) DEO & LDC Exam. 09.11.2014)

- 652. Rainbow is formed due to
  - (1) refraction and dispersion
  - (2) scattering and refraction
  - (3) diffraction and refraction
  - (4) refraction and reflection (SSC CHSL (10+2) DEO & LDC Exam. 09.11.2014)
- **653.** The boiling point of water decreases at higher altitudes is due to
  - (1) low temperature
  - (2) low atmospheric pressure
  - (3) high temprature
  - (4) high atmospheric pressure (SSC CHSL (10+2) DEO & LDC

- **654.** Which of the following have the same unit?
  - (1) Work and power
  - (2) Torque and moment of inertia
  - (3) Work and torque
  - (4) Torque and angular momentum

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014,

Patna Region : Ist Sitting)

- **655.** In a particular system, the units of length, mass and time are chosen to be 10 cm, 10 g and 0.1 s respectively. The unit of force in this system will be equivalent to
  - (1) 0.1 N

(2) 1 N

(3) 10 N

(4) 100 N

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014,

Patna Region : Ist Sitting)

- 656. Distances of stars are measured in
  - (1) Galactic unit
  - (2) Stellar mile
  - (3) Cosmic kilometre
  - (4) Light year

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014,

Patna Region : Ist Sitting)

- 657. Loudness of sound depends on
  - (1) Frequency
  - (2) Wavelength
  - (3) Amplitude
  - (4) Pitch

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014,

Patna Region : Ist Sitting)

- **658.** A man standing at the top of a tower has two spheres A and B. He drops sphere A downwards and throws sphere B horizontally at the same time. Which of the following is correct?
  - (1) Both the spheres will reach the ground simultaneously.
  - (2) A will reach the ground first.
  - (3) B will reach the ground first.
  - (4) The question is incomplete because the masses of the spheres are not given.

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014)

- **659.** The dimensional formula ML<sup>-1</sup>T<sup>-2</sup> corresponds to
  - (1) Modulus of elasticity
  - (2) Viscosity
  - (3) Moment of a force
  - (4) Thrust

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014)

- **660.** 1 Micron is equal to
  - (1)  $10^{-9}$  m

(2)  $10^{-12}$  m

(3)  $10^{-6}$  m

(4)  $10^{-15}$  m

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014)

- **661.** A wavelength of 0.3 m is produced in air and it travels at a speed of 300 m/s. Then it will be an
  - (1) Audible wave
  - (2) Infrasonic wave
  - (3) Ultrasonic wave
  - (4) Microwave

(SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014)

**662.** Water has maximum density at

(1) 100°C

(2) 0°C

(3) 4°C

(4) 273°C

(SSC CHSL (10+2) DEO & LDC

Exam. 16.11.2014)

- **663.** If a body moves with a constant speed in a circle
  - (1) no work is done on it
  - (2) no force acts on it
  - (3) no acceleration is produced in it
  - (4) its velocity remains constant (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, Ist Sitting TF No. 333 LO 2)
- **664.** The waves used in sonography are
  - (1) Micro waves
  - (2) Infra-red waves
  - (3) Sound waves
  - (4) Ultrasonic waves (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, Ist Sitting TF No. 333 LO 2)
- **665.** Which of the following is a scalar quantity?
  - (1) Velocity
  - (2) Force
  - (3) Angular momentum
  - (4) Electrostatic potential (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)
- **666.** Which of the following is not a vector quantity?
  - (1) Speed (2) Velocity
  - (3) Torque (4) Displacement (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)

- 667. An object with a constant speed
  - (1) is not accelerated
  - (2) might be accelerated
  - (3) is always accelerated
  - (4) also has a constant velocity (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)
- **668.** A man in a train moving with a constant velocity drops a ball on the platform. The path of the ball as seen by an observer standing on the platform is
  - (1) A straight line
  - (2) A circle
  - (3) A parabola
  - (4) None of these (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)
- **669.** Which of the following is responsible for permanent hardness of water?
  - (1) magnesium bicarbonate
  - (2) sodium chloride
  - (3) calcium sulphate
  - (4) calcium bicarbonate (SSC CHSL (10+2) DEO & LDC Exam. 16.11.2014, IInd Sitting TF No. 545 QP 6)
- **670.** An electron microscope gives higher magnifications than an optical microscope because :
  - (1) The velocity of electrons is smaller than that of light
  - (2) The wavelength of electrons is smaller as compared to the wavelength of visible light
  - (3) The electrons have more energy than the light particulars
  - (4) The electron microscope uses more powerful lenses

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015 (Ist Sitting) TF No. 8037731)

- **671.** The first law of thermodynamics is simply the case of
  - (1) Charle's law
  - (2) Newton's law of cooling
  - (3) The law of heat exchange
  - (4) The law of conservation of energy

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015 (Ist Sitting) TF No. 8037731)

- **672.** Total internal reflection can not take place when light goes from :
  - (1) glass to water
  - (2) water to glass
  - (3) water to air
  - (4) glass to air

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015 (Ist Sitting) TF No. 8037731)

- **673.** Hertz is a unit for measuring
  - (1) Intensity of waves
  - (2) Frequency of waves
  - (3) Wavelength
  - (4) Clarity of waves

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015

IInd Sitting)

- **674.** Vehicles use \_\_\_\_\_ to see the objects coming from behind.
  - (1) Concave lens
  - (2) Convex lens
  - (3) Convex mirror
  - (4) Concave mirror

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015

IInd Sitting)

- **675.** The rice is cooked more quickly in a pressure cooker because
  - (1) it is covered.
  - (2) less quantity of water is used.
  - (3) None of these
  - (4) water boils at a higher temperature under pressure.

(SSC CAPFs SI, CISF ASI & Delhi Police SI Exam, 21.06.2015

IInd Sitting)

- **676.** It is easy to burst a gas-filled balloon with a neelde than with a nail. It is because
  - (1) nail is more longer than needle.
  - (2) nail exerts more pressure than needle on the balloon.
  - (3) needle exerts more pressure than nail on the balloon.
  - (4) gas is reactive with the needle. (SSC CGL Tier-I Exam, 09.08.2015 (Ist Sitting) TF No. 1443088)
- **677.** Ice is packed in saw dust because
  - (1) saw dust will not get melted easily.
  - (2) saw dust is poor conductor of heat.
  - (3) saw dust is a good conductor of heat.
  - (4) saw dust does not stick to the ice.
  - (SSC CGL Tier-I Exam, 09.08.2015 (Ist Sitting) TF No. 1443088)

- 678. The Dynamo converts
  - (1) Electrical Energy into Mechanical Energy
  - (2) Mechanical Energy into Magnetic Energy
  - (3) None of these
  - (4) Mechanical Energy into Electrical Energy
  - (SSC CGL Tier-I Exam, 09.08.2015 (IInd Sitting) TF No. 4239378)
- **679.** A Fuse wire is characterised by
  - (1) High resistance and low melting point
  - (2) High resistance and high melting point
  - (3) Low resistance and high melting point
  - (4) Low resistance and low melting point

(SSC CGL Tier-I Exam, 09.08.2015 (IInd Sitting) TF No. 4239378)

- **680.** Burns caused by steam are much severe than those caused by boiling water because
  - (1) Steam pierces through the pores of body quickly
  - (2) Steam has latent heat
  - (3) Steam is gas and engulfs the body quickly
  - (4) Temperature of steam is higher (SSC CGL Tier-I Exam, 16.08.2015 (Ist Sitting) TF No. 3196279)
- **681.** Which of the following options correctly explains the term heat budget?
  - (1) It is a mode of transfer of heat through matter by molecular activity.
  - (2) It is the balance between incoming and outgoing radiation
  - (3) It is the radiation from the earth in the form of long waves.
  - (4) It is the amount of heat which the surface of earth receives from the sun.
  - (SSC CGL Tier-I Exam, 16.08.2015 (Ist Sitting) TF No. 3196279)
- **682.** The purpose of choke in a fluorescent lamp is :
  - (1) to increase the current flow
  - (2) to decrease the current flow
  - (3) to decrease the resistance
  - (4) ro decrease the voltage momentarily

(SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)

- **683.** The mercury and sodium street lamps light up because of :
  - (1) Atomic emission
  - (2) Atomic absorption
  - (3) Electron emission
  - (4) Electron absorption

(SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)

- **684.** A person can jump higher on the moon's surface than on the earth because :
  - (1) the moon's surface is rough
  - (2) the acceleration due to gravity in moon is smaller than that on the earth.
  - (3) the moon is cooler than earth
  - (4) the moon has no atmosphere

(SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)

- **685.** Which of the following colour of light deviates least through the prism?
  - (1) yellow (2) green
  - (3) violet (4) red

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)

- **686.** Hydraulic brakes work on the principle of
  - (1) Thomson's law
  - (2) Newton's law
  - (3) Bernoulli's theorem
  - (4) Pascal's law

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)

- **687.** Which one of the following is not a feature of Indifference Curve?
  - (1) They do not intersect each other
  - (2) They slope downwards to the right
  - (3) They are parallel to each other
  - (4) They are concave to each other
- (SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783) **688.** The apparent weight of a man
- in a lift is less the real weight when:
  - (1) the lift is going up with an acceleration
  - (2) the lift is going down with uniform speed
  - (3) the lift is going up with uniform speed
  - (4) the lift is going down with an acceleration
  - (SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)

- **689.** Rainbows are produced when sunlight:
  - Incident on rain drops hanging in the atmosphere is dispersed after suffering refraction
  - (2) Incident on rain drops hanging in the atmosphere is dispersed after suffering refraction and internal reflection.
  - (3) Incident on raindrops hanging in the atmosphere is dispresed after suffering reflection.
  - (4) None of the given statements is correct.
  - (SSC CGL Tier-I Exam, 16.08.2015 (IInd Sitting) TF No. 2176783)
- **690.** Sound is heard over longer distances on rainy days because
  - (1) sound travels slowly in moist
  - (2) sound travels faster in moist air
  - (3) moist air does not absorb sound
  - (4) moist air absorbs sound (SSC CGL Tier-I Re-Exam, 30.08.2015)
- **691.** X-rays are
  - (1) positively charged particles
  - (2) negatively charged particles
  - (3) neutral particles
  - (4) None of these

(SSC CGL Tier-I Re-Exam, 30.08.2015)

- **692.** Railway tracks are banked on curves so that :
  - (1) the train may not fall down inwards.
  - (2) the weight of the train may be reduced.
  - (3) necessary centripetal force may be obtained from the horizontal component of the normal reaction due to track.
  - (4) no frictional force may be produced between the wheels and the track.

(SSC CGL Tier-I Re-Exam, 30.08.2015)

- **693.** We feel cool when we sit near the fan, this is because
  - (1) fan gives cool air.
  - (2) fan cools surrounding air.
  - (3) air vapourises the sweat on our body.

(4) we feel cool when air touches the body.

(SSC CGL Tier-I Re-Exam, 30.08.2015)

- **694.** The average kinetic energy of the molecules of an ideal gas is directly proportional to
  - (1) Velocity of Molecules
  - (2) Mass of Molecules
  - (3) Absolute temperature of the gas
  - (4) Temperature of environment (SSC CGL Tier-I

Re-Exam, 30.08.2015)

- **695.** Which one of the following is a non-dimensional quantity?
  - (1) Gas constant
  - (2) Strain
  - (3) Co-efficient of viscocity
  - (4) Plank's constant

(SSC Constable (GD) Exam, 04.10.2015, Ist Sitting)

- **696.** When water freezes its density
  - (1) Decreases
  - (2) Becomes Zero
  - (3) Remains constant
  - (4) Increases

(SSC Constable (GD) Exam, 04.10.2015, Ist Sitting)

- **697.** Which of the following property of sound is affected by change in air temperature
  - (1) Frequency (2) Intensity
  - (3) Amplitude (4) Wavelength

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

**698.** A bullet of mass 'm' and velocity 'a' is fired in to a large block of wood of mass 'M'. The final velocity of the system is

(1) 
$$\frac{M}{m+M}$$
 a (2)  $\frac{m}{m+M}$  a

(3) 
$$\frac{m+M}{m}a$$
 (4)  $\frac{m+M}{M}a$ 

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

**699.** The intensity ratio of waves is 25:9. What is the ratio of their amplitudes?

(1) 50 : 18 (2) 25 : 9

(3) 3:5 (4) 5:3

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

- **700.** When number of turns in a coil is trippled, without any change in the length of coil, its self inductance becomes?
  - (1) Nine times (2) Three times
  - (3) Six times (4) One-third

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 01.11.2015, IInd Sitting)

- **701.** The abbreviation LHC stands for which machine?
  - (1) Light Heat Collider
  - (2) Large Hadron Collider
  - (3) Long Heavy Collider
  - (4) Large High Collider

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (Ist Sitting) TF No. 6636838)

- **702.** Which of these travels in glass with minimum velocity?
  - (1) red light (2) violet light
  - (3) green light (4) yellow light (SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (Ist Sitting) TF No. 6636838)
- **703.** The phenomenon which causes mirage is
  - (1) Interference
  - (2) Diffraction
  - (3) Polarisation
  - (4) Total internal reflection (SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (Ist Sitting) TF No. 6636838)
- **704.** Which of the following phenomenon helps to conclude that light is a transverse wave?
  - (1) interference (2) diffraction
  - (3) polarisation (4) refraction (SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)
- **705.** Plank's constant has the dimensions of :
  - (1) energy
  - (2) linear momentum
  - (3) angular momentum
  - (4) force

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)

- **706.** Blowing Air with open pipe is an example of :
  - (1) Isothermal process
  - (2) Isochroric process
  - (3) Isobaric process
  - (4) Adiabatic process

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)

- **707.** The amount of matter in a ball of steel is its:
  - (1) Weight
- (2) Mass
- (3) Density (4) Volume (SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 15.11.2015 (IInd Sitting) TF No. 7203752)
- 708. Unit of resistance is:
  - (1) volt<sup>2</sup>× ampere
  - (2) volt/ampere
  - (3) ampere/volt
  - (4) volt  $\times$  ampere

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (Ist Sitting) TF No. 1375232)

- 709. A cycle tyre bursts suddenly. This represents an:
  - (1) Isothermal process
  - (2) Adiabatic process
  - (3) Isochoric process
  - (4) Isoboric process

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (Ist Sitting) TF No. 1375232)

- 710. In which region of electromagnetic spectrum does the Lyman series of hydrogen atom lie?
  - (1) Visible
- (2) Infrared
- (3) Ultraviolet (4) X-ray (SSC CHSL (10+2) LDC, DEO & PA/SA Exam. 06.12.2015 (IInd Sitting) TF No. 3441135)
- 711. A light wave is incident over a plane surface with velocity x. After reflection the velocity becomes:
  - (1)  $\frac{x}{2}$
- (2) x
- (3) 2x

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (IInd Sitting) TF No. 3441135)

- 712. Distant objects are visible as a little out of focus in this condition:
  - (1) presbiopia
  - (2) hypermetropia
  - (3) astigmatism
  - (4) myopia

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (IInd Sitting) TF No. 3441135)

- **713.** The redness in atmosphere at Sunrise and Sunset is due to:
  - (1) Refraction of light
  - (2) Reflection of light
  - (3) Dispersion of light
  - (4) Scattering of light

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 06.12.2015 (IInd Sitting) TF No. 3441135)

- **714.** If density of oxygen is 16 times that of hydrogen, what will be their corresponding ratio of velocity of sound?
  - (1) 4 : 1
- (2) 2 : 1
- (3) 1:16
- (4) 1 : 4

(SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)

- 715. S.I. unit of Magnetic flux is
  - (1) weber
- (2) weber/m
- (3) weber/m<sup>4</sup> (4) weber- $m^2$ (SSC CHSL (10+2) LDC, DEO & PA/SA Exam, 20.12.2015 (Ist Sitting) TF No. 9692918)
- 716. To prevent damage from lightning, lightning conductors are used on tall structures. The lightning conductor
  - (1) should be made of a good conductor but can be of any shape
  - (2) should be in the form of a vertical rod
  - (3) can be of any shape
  - (4) should be made of a good conductor like copper with sharp-pointed edges

(SSC (10+2) Stenographer Grade 'C' & 'D' Exam. 31.07.2016)

- 717. Beta rays emitted by a radioactive material are
  - (1) The electrons orbiting around the nucleus
  - (2) Charged particles emitted by nucleus
  - (3) Neutral particles
  - (4) Electromagnetic radiations (SSC (10+2) Stenographer Grade 'C' & 'D' Exam. 31.07.2016)
- 718. 'Parsec' is the unit measurement of
  - (1) Density of stars
  - (2) Astronomical distance
  - (3) Brightness of heavenly bod-
  - (4) Orbital velocity of giant stars (SSC CGL Tier-I (CBE) Exam. 10.09.2016)

- 719. The phenomenon of change in direction of light when it passes from one medium to another is called
  - (1) Propagation
  - (2) Reflection
  - (3) Refraction
  - (4) Dispersion

(SSC CGL Tier-I (CBE) Exam. 10.09.2016)

- **720.** Super cooling stands for cooling of a liquid:
  - (1) at freezing point
  - (2) below freezing point
  - (3) at melting point
  - (4) above melting point

(SSC CGL Tier-I (CBE) Exam.

11.09.2016, (Ist Sitting))

- 721. Alcohol is more volatile than water because \_\_\_\_\_ is lower than water.
  - (1) its boiling point
  - (2) its density
  - (3) its viscosity
  - (4) its surface tension

(SSC CGL Tier-I (CBE) Exam. 11.09.2016, (Ist Sitting))

- **722.** Which of the following is the second largest source of global energy?
  - (1) Fossil fuel
  - (2) Nuclear Energy
  - (3) Renewable Energy
  - (4) None of these (SSC CPO SI, ASI Online Exam.

05.06.2016, (2nd Sitting))

- **723.** A light year is a unit of:
  - (1) Time
  - (2) Distance in Space
  - (3) Length of astronomical distances
  - (4) Distance travelled by light (SSC CPO SI, ASI Online Exam. 05.06.2016, (2nd Sitting))
- 724. The SI unit of luminous emittance is:
  - (1) Lux
    - (2) Candela
  - (3) Lumen
  - (4) Lumen second

(SSC CPO SI, ASI Online Exam. 05.06.2016, (2nd Sitting))

- **725.** Which of the following is the unit of perceived loudness of sound?
  - (1) Decibel
- (2) Sone
- (3) Hertz
- (4) Phon

(SSC CPO Exam.

- **726.** Stress can be defined as \_\_ quantity.
  - (1) Scalar (2) Vector
  - (3) Phasor (4) Tensor

(SSC CPO Exam. 06.06.2016, (Ist Sitting))

- 727. Which of the following is indicated by the colour of a star?
  - (1) weight
  - (2) distance
  - (3) temperature
  - (4) size

(SSC CHSL (10+2) Tier-I (CBE) Exam. 08.09.2016 (Ist Sitting))

- 728. For which one of the following, 'Diodes' are generally used for?
  - (1) Rectification
  - (2) Amplification
  - (3) Modulation
  - (4) Filtration

(SSC CHSL (10+2) Tier-I (CBE) Exam. 08.09.2016 (Ist Sitting))

- **729.** Which term is not associated with sound wave?
  - (1) Hertz
- (2) Decibel
- (3) Candela (4) Mach

(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (Ist Sitting))

- **730.** If an electron and a photon have the same wavelength, then they will have the same
  - (1) velocity
  - (2) linear momentum
  - (3) angular momentum
  - (4) energy

(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (Ist Sitting))

- **731.** When temperature difference between liquid and its surroundings is doubled, the rate of loss of heat will:
  - (1) remain same
  - (2) double
  - (3) three times
  - (4) four times

(SSC CAPFs (CPO) SI & ASI, Delhi Police SI Exam. 20.03.2016

(2nd Sitting))

- 732. The period of revolution of a certain planet in an orbit of radius R is T. Its period of revolution in an orbit of radius 4R will be:
  - (1) 8 T
- (2) 4 T
- (3)  $2\sqrt{2}$  T (4) 2 T

(SSC CAPFs (CPO) SI & ASI, Delhi Police SI Exam. 20.03.2016 (2nd Sitting))

- **733.** The weight of a body at the centre of earth is:
  - (1) half the weight at the surface
  - (2) zero
  - (3) twice the weight at the surface
  - (4) infinite

(SSC CAPFs (CPO) SI & ASI, Delhi Police SI Exam. 20.03.2016 (2nd Sitting))

- **734.** When a ship enters the sea from a river what will be the effect?
  - (1) It lowers
  - (2) It sways
  - (3) It rises a little
  - (4) It jolts

(SSC CAPFs (CPO) SI & ASI, Delhi Police SI Exam. 05.06.2016 (Ist Sitting))

- **735.** Hydroscope is an instrument that shows changes in:
  - (1) Sound under water
  - (2) Atmospheric humidity
  - (3) Density of liquid
  - (4) Elevation of land

(SSC CAPFs (CPO) SI & ASI,Delhi Police SI Exam. 05.06.2016 (Ist Sitting))

- 736. Which one of the following reflects back more sunlight as compared to other three?
  - (1) Sand desert
  - (2) Land covered with fresh snow
  - (3) Prairie land
  - (4) Paddy crop land

(SSC CAPFs (CPO) SI & ASI, Delhi Police SI Exam. 05.06.2016

(Ist Sitting))

- **737.** The magnitude of current flowing between two end points of a conductor is proportional to the potential difference between them and is called as:
  - (1) Avogadro's law
  - (2) Rault's law
  - (3) Ohms law
  - (4) Faraday's law

(SSC CAPFs (CPO) SI & ASI.Delhi Police SI Exam. 05.06.2016 (Ist Sitting))

- 738. Which Article of the Indian Constitution provides free and compulsory education to children?
  - (1) 21-A
- (2) 46
- (3) 39
- (4) 15

(SSC CAPFs (CPO) SI & ASI.Delhi Police SI Exam. 05.06.2016 (Ist Sitting))

- 739. The cooling by a desert Cooler is based on:
  - (1) Hot air replacement
  - (2) Air dehydration
  - (3) Evaporative Cooling
  - (4) Air Rehydration

(SSC CPO SI, ASI Online Exam. 06.06.2016 (2nd Sitting))

- **740.** Which of the following is an example of simple harmonic motion?
  - (1) Earth spinning on its axis
  - (2) Simple pendulum motion
  - (3) Ball bouncing on floor
  - (4) Motion of a ceiling fan (SSC CPO SI, ASI Online Exam. 06.06.2016 (2nd Sitting))
- **741.** Which of the following are methods of heat transfer?
  - (1) Convection
  - (2) Evaporation
  - (3) Revolution
  - (4) Thermal Expansion (SSC CPO SI, ASI Online Exam. 06.06.2016 (2nd Sitting))
- 742. Which of the following was the first theory of super conductivity?
  - (1) Ginzburg Landau theory
  - (2) London theory
  - (3) Resonating valence bond the-
  - (4) Quantum field theory (SSC CPO SI, ASI Online Exam. 06.06.2016 (2nd Sitting))
- **743.** Which of the following is the unit of Astronomical Distance?
  - (1) metre/sec. (2) Sec.
  - (3) Para/sec. (4) Parsec (SSC CPO SI, ASI Online Exam. 06.06.2016 (2nd Sitting))
- **744.** At boiling point of liquids, its
  - (1) Temperature increases
  - (2) Atmospheric pressure in-
  - (3) Temperature remains con-
  - (4) Vapour pressure decreases (SSC CGL Tier-I (CBE) Exam. 27.08.2016 (Ist Sitting))
- **745.** On a clean glass plate a drop of water spreads to form a thin layer whereas a drop of mercury remains almost spherical because
  - (1) Mercury is a metal
  - (2) Density of mercury is greater than that of water

#### PHYSICS |

- (3) Cohesion of mercury is greater than its adhesion with glass
- (4) Cohesion of water is greater than its adhesion with glass (SSC CGL Tier-I (CBE) Exam. 27.08.2016 (Ist Sitting))
- **746.** Which of the following is an insulator?
  - (1) Mercury (2) Carbon
  - (3) Germanium
  - (4) Glass

(SSC CGL Tier-I (CBE) Exam. 27.08.2016 (2nd Sitting))

- **747.** Name the process by which bubbles from liquid are formed?
  - (1) Effervescence
  - (2) Surface Tension
  - (3) Surface Energy
  - (4) Degasification

(SSC CGL Tier-I (CBE) Exam. 27.08.2016 (2nd Sitting))

- **748.** The boiling point of water depends upon the
  - (1) atmospheric pressure
  - (2) volume
  - (3) density (4) mass

(SSC CGL Tier-I (CBE) Exam. 27.08.2016 (2nd Sitting))

- **749.** What is the phenomenon which established the transverse nature of light?
  - (1) Reflection (2) Interference
  - (3) Diffraction (4) Polarisation (SSC CGL Tier-I (CBE) Exam. 28.08.2016 (2nd Sitting))
- **750.** What is the name of the device used to convert alternating current into direct current?
  - (1) Ammeter
  - (2) Galvanometer
  - (3) Rectifier (4) Transformer (SSC CGL Tier-I (CBE) Exam. 28.08.2016 (2nd Sitting))
- **751.** Why does ice covered in sawdust not melt quickly?
  - (1) Sawdust does not allow the air to touch the ice
  - (2) The water is absorbed by sawdust
  - (3) Sawdust is a bad conductor of heat
  - (4) Sawdust is good conductor of heat

(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (2nd Sitting))

- **752.** The washing machine works on the principle of
  - (1) Dialysis (2) Diffusion
  - (3) Reverse osmosis
  - (4) Centrifugation

(SSC CGL Tier-I (CBE) Exam. 29.08.2016 (2nd Sitting))

- **753.** The 'Choke' used with a tube light is basically
  - (1) an inductor
  - (2) a capacitor
  - (3) a transformer
  - (4) a resistor

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (Ist Sitting))

- **754.** Curie is an unit of
  - (1) Radioactivity
  - (2) energy of Gamma rays
  - (3) intensity of Gamma rays
  - (4) work function

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (Ist Sitting))

- **755.** Energy travels from Sun to Earth through
  - (1) conduction
  - (2) convection
  - (3) radiation
  - (4) modulation

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (Ist Sitting))

- **756.** Heat is transmitted from higher temperature to lower temperature through the actual motion of the molecules in
  - (1) Conduction
  - (2) Convection
  - (3) Radiation
  - (4) Both conduction and convection

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (Ist Sitting))

- **757.** Which one among the following components is used as an amplifying device?
  - (1) Transformer
  - (2) Diode (3) Capacitor
  - (4) Transistor

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (Ist Sitting))

- **758.** The unit of measurement of noise is
  - (1) Decibel (2) Hertz
  - (3) Amplifier (4) Acoustics (SSC CGL Tier-I (CBE) Exam.

01.09.2016 (Ist Sitting))

- **759.** The commonly used coolant in refrigerators is
  - (1) Ammonia (2) Nitrogen
  - (3) Freon
- (4) Oxygen

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (Ist Sitting))

- **760.** A galvanometer can be converted into a voltmeter by connecting with it a
  - (1) high resistance in parallel
  - (2) low resistance on parallel
  - (3) high resistance on series
  - (4) low resistance in series

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (Ist Sitting))

- **761.** During which of the following operating conditions of an automobile, carbon monoxide content in exhaust gas is maximum?
  - (1) Acceleration
  - (2) Cruising
  - (3) Idle running
  - (4) Deacceleration

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (Ist Sitting))

- **762.** The least distance of distinct vision is
  - (1) 35 cm (2) 25 cm
  - (3) 45 cm (4) 15 cm

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (2nd Sitting))

- **763.** The component used for tuning a radio is basically a variable
  - (1) Resistor(3) Inductor
  - (4) Transformer

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (2nd Sitting))

- **764.** 0°K is equivalent to
  - (1)  $273^{\circ}$ C (2)  $-273^{\circ}$ C
  - (3) 0°C
- (4) 100°C

(2) Condenser

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (2nd Sitting))

- **765.** The term 'Higgs Boson' is associated with
  - (1) Nano Technology
  - (2) Oncology
  - (3) God Particle
  - (4) Stem Cell Research

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (2nd Sitting))

- **766.** Addition of suitable impurities into semiconductor, is called
  - (1) Doping (2) Mixing
  - (3) Forming (4) Diluting

(SSC CGL Tier-I (CBE) Exam.

04.09.2016 (Ist Sitting))

- **767.** At low temperature, Lead behaves as a :
  - (1) Semi conductor
  - (2) Super conductor
  - (3) Insulator
  - (4) Conductor

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (Ist Sitting))

- **768.** The absolute zero is a temperature at which \_\_\_\_\_
  - (1) molecular motion in a gas would cease
  - (2) water freezes
  - (3) all gases become liquid
  - (4) all gases become solid

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (Ist Sitting))

- **769.** Intensity of any wave is proportional to which of the following?
  - (1) Amplitude
  - (2) Square of amplitude
  - (3) Square root of amplitude
  - (4) Cube of amplitude

(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (Ist Sitting))

- **770.** The large collection of stars, dust and gas held together by gravitational attraction between components is known as
  - (1) Cluster
  - (2) Atmosphere
  - (3) Galaxy
  - (4) Sun Family

(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (Ist Sitting))

- **771.** Purpose of an optical filter is to
  - (1) reflect lights of different co-
  - (2) dispense light into component colours
  - (3) refract light of different colours
  - (4) transmit or absorb light of different colours

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (2nd Sitting))

- **772.** In the absence of the earth's atmosphere, sky would appear
  - (1) blue
- (2) deep red
- (3) white
- (4) black

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (2nd Sitting))

- **773.** If electric resistance is to be decreased, then the number of resistances should be connected in
  - (1) Series
- (2) Parallel
- (3) Mixed arrangement
- (4) None of these

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (2nd Sitting))

- **774.** The material used in electric heater is
  - (1) Tungsten (2) Nichrome
  - (3) Brass (4) Steel

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (2nd Sitting))

- **775.** Which one of the following processes is responsible for the glittering of air bubble rising through water?
  - (1) Reflection of light
  - (2) Refraction of light
  - (3) Total internal reflection of light
  - (4) Scattering of light

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (2nd Sitting))

- **776.** In an optical fibre the signal is transmitted
  - (1) in a straight line path
  - (2) In a curved path
  - (3) due to total internal reflection
  - (4) Due to refraction

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (2nd Sitting))

- **777.** What type of lens is used to correct vision of a person suffering from Myopia?
  - (1) Convex lens
  - (2) Concave lens
  - (3) Crossed lens
  - (4) Cylindrical lens

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (2nd Sitting))

- **778.** A man standing close to the platform at a railway station experiences a pulling force towards a fast moving train because of
  - (1) gravitational force between train and man
  - (2) illusion of the man
  - (3) the centripetal force
  - (4) pressure difference due to fast moving air in between (SSC CGL Tier-I (CBE) Exam.

02.09.2016 (2nd Sitting))

- **779.** Water is used in a hot water bag because
  - (1) It is easily available
  - (2) It has high specific gravity
  - (3) It has high specific heat
  - (4) It is a liquid substance

(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (Ist Sitting))

- **780.** The temperature of a liquid is 32° F. What is its temperature in Celsius scale?
  - (1) 32° C
- (2) 0° C
- (3) 100° C (4) 212° C

(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (Ist Sitting))

- **781.** The point where total mass of a body is supposed to be concentrated is known as
  - (1) Dead centre
  - (2) Centre of mass
  - (3) Centre of gravity
  - (4) Centre of motion

(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (Ist Sitting))

- **782.** Where do the electrical charges reside in a charged conductor?
  - (1) at the core
  - (2) throughout the body
  - (3) depended upon the nature of the body
  - (4) outer surface of the body (SSC CGL Tier-I (CBE) Exam. 28.08.2016 (Ist Sitting))
- **783.** The colour of the ocean appears to be blue because the sunlight falling on it is
  - (1) reflected
- (2) refracted
- (3) diffracted (4) scattered

(SSC CGL Tier-I (CBE) Exam. 28.08.2016 (Ist Sitting))

- **784.** Which of the following is not true about X-rays?
  - (1) have low penetrating power
  - (2) travel with the speed of light
  - (3) Can be reflected or refracted
  - (4) can affect photographic plates (SSC CGL Tier-I (CBE) Exam. 29.08.2016 (Ist Sitting))
- **785.** What type of force acts on a car moving around a curve?
  - (1) Centrifugal force
  - (2) Cohesive force
  - (3) Centripetal force
  - (4) Gravitational force

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (IIIrd Sitting))

- **786.** Which phenomenon is responsible for the echo of sound wave?
  - (1) Reflection (2) Refraction
  - (3) Interference
  - (4) Polarisation

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (IIIrd Sitting))

- **787.** Which of the metals has the maximum thermal conductivity?
  - (1) Iron
- $\hbox{\ensuremath{(2)}\,Aluminium}$

(3) Silver (4) Copper

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (IIIrd Sitting))

- **788.** Which of the following is the cleanest source of energy?
  - (1) Biofuel
  - (2) Fossil fuel
  - (3) Nuclear power
  - (4) Wind energy

(SSC CGL Tier-I (CBE) Exam. 30.08.2016 (IIIrd Sitting))

- **789.** Which one of the following is an ohmic conductor?
  - (1) Germanium
  - (2) Silicon
  - (3) Carbon (4) Silver

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (IIIrd Sitting))

- **790.** The spring balance works on the principle of \_\_\_\_\_\_\_.
  - (1) Boyle's Law
  - (2) Hooke's Law
  - (3) Bernoulli's principle
  - (4) Pascal's Law

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (IIIrd Sitting))

- **791.** If there were no gravity, which of the following will not be there for a fluid?
  - (1) Viscosity
  - (2) Surface Tension
  - (3) Pressure
  - (4) Upward Thrust

(SSC CGL Tier-I (CBE) Exam. 31.08.2016 (IIIrd Sitting))

- **792.** Sun appears red in colour at sunrise and sunset due to
  - (1) the fact that sun emits only red colour at that time
  - (2) red light having longer wave length scatters away
  - (3) that sun comes out of the mountains
  - (4) that all other colours scatter away except red

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (IIIrd Sitting))

- **793.** At hill stations, the boiling point of water will be
  - (1) same as at sea level
  - (2) less than that at sea level
  - (3) more than that at sea level
  - (4) equal to the melting point of ice

(SSC CGL Tier-I (CBE) Exam. 01.09.2016 (IIIrd Sitting))

- **794.** When we see an object, the image formed on the retina is
  - (1) Real and inverted
  - (2) Real and erect
  - (3) Virtual and erect
  - (4) Virtual and inverted

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (IIIrd Sitting))

- **795.** Kinetic energy depends on
  - (1) the velocity or speed of the moving body.
  - (2) the mass of the moving body
  - (3) the pressure of the moving body
  - (4) both mass and velocity of the moving body

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (IIIrd Sitting))

- **796.** In which form is the supplied heat energy stored during change in temperature of substance?
  - (1) Heat energy
  - (2) Kinetic energy
  - (3) Potential energy
  - (4) Both kinetic and potential energy

(SSC CGL Tier-I (CBE) Exam. 02.09.2016 (IIIrd Sitting))

- **797.** If ice floating on water in a vessel melts, the water level in the vessel \_\_\_\_\_.
  - (1) increases
  - (2) does not change
  - (3) first increases before decreasing
  - (4) decreases

(SSC CHSL (10+2) Tier-I (CBE) Exam. 16.01.2017) (IInd Sitting)

- **798.** A galvanometer can be converted to a voltmeter by connecting
  - (1) a high resistance in parallel
  - (2) a high resistance in series
  - (3) a low resistance in series
  - (4) a low resistance in parallel (SSC CGL Tier-I (CBE) Exam. 03.09.2016 (IIIrd Sitting))

**799.** The frequency of direct current is

- (1) Zero
- (2) 50 HZ
- (3) 60 HZ
- (4) 100 HZ

(SSC CGL Tier-I (CBE) Exam. 03.09.2016 (IIIrd Sitting))

- **800.** For photoelectric effect to take place, the metal used as the cathode should have\_\_\_\_\_
  - (1) high melting point
  - (2) low melting point
  - (3) low work function
  - (4) low resistance

(SSC CGL Tier-I (CBE) Exam. 04.09.2016 (IIIrd Sitting))

- **801.** Flemings "Left hand Rule" is associated with the effect of
  - (1) Electric field on current
  - (2) Magnetic field on magnet
  - (3) Electric field on magnet
  - (4) Magnetic Field on current (SSC CGL Tier-I (CBE) Exam.

06.09.2016 (IIIrd Sitting))

- **802.** The force which makes a vehicle to stop when break is applied is called
  - (1) gravitational force
  - (2) vanderwalls force
  - (3) frictional force
  - (4) covalant force

(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (IIIrd Sitting))

- **803.** Why is weightlessness experienced while orbiting the earth in space ships ?
  - (1) Inertia
  - (2) Acceleration
  - (3) Zero gravity
  - (4) Orbital motion

(SSC CGL Tier-I (CBE) Exam. 08.09.2016 (IIIrd Sitting))

- **804.** Where is a transistor most likely to be found?
  - (1) Wrist watch
  - (2) Fuse
  - (3) Hearing aid
  - (4) Fluorescent lamp

(SSC CGL Tier-I (CBE) Exam. 08.09.2016 (IIIrd Sitting))

- **805.** Every hot object emits \_\_\_\_
  - (1) X-ravs
  - (2) Visible light
  - (3) Infrared rays
  - (4) Ultraviolet rays

(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (IIIrd Sitting))

- **806.** In hydel power station, the motion produced in turbines is due
  - (1) flow of water
  - (2) burning of coal
  - (3) burning of diesel
  - (4) production of steam

(SSC CGL Tier-I (CBE) Exam. 10.09.2016 (IIIrd Sitting))

- **807.** Two vectors are said to be equal if
  - (1) only their magnitudes are same
  - (2) only their directions are same
  - (3) both magnitude and direction are same
  - (4) magnitudes are same but directions are opposite

(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IIIrd Sitting))

- **808.** Fuse wire is made of an alloy of
  - (1) Tin and Lead
  - (2) Tin and Copper
  - (3) Lead and Copper
  - (4) Copper and Silver

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (IInd Sitting))

- **809.** Which of the following has the lowest frequency?
  - (1) Visible light
  - (2) Gamma rays
  - (3) Xrays
  - (4) Ultra violet rays

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (IInd Sitting))

- 810. A fresh egg when placed in salt water will
  - (1) sink and go to the bottom
  - (2) sink but will not go to the bottom
  - (3) float
  - (4) burst

(SSC CGL Tier-I (CBE) Exam. 06.09.2016 (IInd Sitting))

- **811.** Which one among the following is not an electromagnetic wave?
  - (2) R-Ray (1) X-Ray
  - (3) Cathode Ray (4) Infrared Ray (SSC CGL Tier-I (CBE) Exam. 07.09.2016 (IInd Sitting))
- 812. Which one of the following is a good electrical conductor?
  - (1) Graphite (2) Diamond
  - (4) Charcoal (3) Peat

(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (IInd Sitting))

- 813. Sending a frame to a group of stations is known as
  - (1) Single casting
  - (2) Spreading
  - (3) Multicasting
  - (4) Casting

(SSC CGL Tier-I (CBE) Exam. 07.09.2016 (IInd Sitting))

- **814.** Which one among the following components can not be developed within an "integrated circuit"?
  - (1) Diode (2) Triode
  - (3) Transformer (4) Transistor (SSC CGL Tier-I (CBE) Exam. 08.09.2016 (IInd Sitting))
- **815.** A particle is thrown vertically upward. When it reaches the highest point, it has
  - (1) a downward acceleration
  - (2) an upward acceleration
  - (3) a downward velocity
  - (4) a horizontal velocity

(SSC CGL Tier-I (CBE) Exam. 09.09.2016 (IInd Sitting))

- **816.** The quality or tone of a musical sound produced by a stringed instrument depends on
  - (1) frequency of vibration
  - (2) length of the strings in the instrument
  - (3) Amplitude of vibration
  - (4) wave form of the sound (SSC CGL Tier-I (CBE) Exam. 09.09.2016 (IInd Sitting))

- 817. Why does a cannon recoil after firing?
  - (1) Conservation of energy
  - (2) Backward thrust of gases produced
  - Newton's third law of motion
  - (4) Newton's first law of motion (SSC CGL Tier-I (CBE) Exam. 10.09.2016 (IInd Sitting))
- **818.** A bomb explodes on the moon. You will hear its sound on earth after
  - (1) 20 minutes
  - (2) 2 hours 20 minutes
  - (3) 3.7 hours
  - (4) You cannot hear the sound of explosion

(SSC CGL Tier-I (CBE) Exam. 10.09.2016 (IInd Sitting))

- 819. Person who is colourblind cannot distinguish between
  - (1) Black and yellow
  - (2) Red and green
  - (3) Yellow and white
  - (4) Green and blue

(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IInd Sitting))

- **820.** During the motion of a projectile fired from the earth surface,
  - (1) its kinetic energy remains constant
  - (2) its momentum remains constant
  - (3) vertical component of its velocity remains constant
  - (4) horizontal component of its velocity remains constant

(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IInd Sitting))

- 821. Which of the following waves cannot be polarised?
  - (1) Radio (2) Ultra violet
  - (3) Infrared (4) Ultrasonic (SSC CGL Tier-I (CBE) Exam.

11.09.2016 (IInd Sitting))

- **822.** Absolute Zero is defined as
  - (1) The temperature at which all molecular motion ceases
  - (2) At which water boils at 298K
  - (3) At which liquid Helium boils
  - (4) At which the volume becomes zero

(SSC CGL Tier-I (CBE) Exam. 11.09.2016 (IInd Sitting))

- 823. Electromagnet is constructed with which of the following?
  - (1) Steel (2) Soft Iron
  - (3) Aluminium (4) Nickel (SSC CGL Tier-I (CBE) Exam.

27.10.2016 (Ist Sitting))

with a constant speed has a (2) constant acceleration

**824.** A body moving in a circular path

- (1) constant velocity
- (3) constant kinetic energy
- (4) constant displacement

(SSC CGL Tier-I (CBE) Exam. 27.10.2016 (Ist Sitting))

- **825.** The Solar energy produced by
  - (1) Fusion reaction
  - (2) Fission reaction
  - (3) Combustion reaction
  - (4) None

(SSC CGL Tier-I (CBE) Exam. 27.10.2016 (IInd Sitting))

- **826.** On a cold day when the room temperature is 15°C, the metallic cap of a pen becomes much colder than its plastic body, though both are at the same temperature of 15°C, because:
  - (1) metals have higher thermal capacity than plastics
  - plastics have a lower density than metals
  - (3) metals are good conductors of heat
  - plastics have a higher thermal conductivity than metals (SSC CGL Tier-I (CBE) Exam.
- 27.10.2016 (IInd Sitting)) **827.** Copper wires are generally used for electrical power transmission instead of iron wire because:
  - (1) copper is cheaper than iron
  - (2) copper is lighter than iron
  - (3) copper is a better conductor of electricity than iron
  - (4) copper can take higher power than iron

(SSC CGL Tier-I (CBE) Exam. 27.10.2016 (IInd Sitting))

- 828. Transformer is a device to convert
  - (1) D.C. to A.C.
  - (2) Low voltage D.C. into high voltage D.C.
  - Low voltage A.C. into high voltage A.C.
  - Mechanical energy into Electrical energy

(SSC CGL Tier-I (CBE) Exam. 03.09.2016) (IInd Sitting)

- 829. Quality of a musical note depends on
  - (1) Fundamental frequency
  - (2) Amplitude of the wave
  - Harmonics present
  - (4) Velocity of sound in the medium

(SSC CGL Tier-I (CBE) Exam. 03.09.2016) (IInd Sitting)

- **830.** The reverse effect of X–ray emission is
  - (1) Raman effect
  - (2) Compton effect
  - (3) Zeeman effect
  - (4) Photoelectric

(SSC CGL Tier-I (CBE)

Exam. 04.09.2016) (IInd Sitting)

- **831.** The group of solar cells joined together in a definite pattern is called a
  - (1) Battery
  - (2) Solar heater
  - (3) Solar cooker
  - (4) Solar cell panel

(SSC CGL Tier-I (CBE) Exam. 04.09.2016) (IInd Sitting)

- **832.** One nanometer is equal to \_ meters.
  - (1) 10 raised to the power (-3)
  - (2) 10 raised to the power (-6)
  - (3) 10 raised to the power (-9)
  - (4) 10 raised to the power (-12) (SSC CHSL (10+2) Tier-I (CBE) Exam. 15.01.2017) (IInd Sitting)
- **833.** What is the unit of relative density?
  - (1) kg/m (2)  $kg/m^2$
  - (3)  $kg/m^3$
  - (4) It has no unit

(SSC CHSL (10+2) Tier-I (CBE) Exam. 15.01.2017) (IInd Sitting)

- 834. Acceleration is
  - (1) Inversely proportional to force
  - (2) Inversely proportional to mass
  - (3) Directly proportional to mass
  - (4) Directly proportional to force (SSC CHSL (10+2) Tier-I (CBE) Exam. 16.01.2017) (IInd Sitting)
- **835.** Vegetables are cooked in lesser time by adding a pinch of salt while cooking because
  - (1) boiling point of water increases
  - (2) latent heat of vaporization of water decreases
  - (3) latent heat of vaporization of water increases
  - (4) boiling point of water decreases

(SSC Multi-Tasking Staff Exam. 30.04.2017 Ist Sitting)

- **836.** Hydraulic brakes in automobile work on
  - (1) Poiseuille's principle
  - (2) Pascal's principle
  - (3) Archimedes' principle
  - (4) Bernoulli's principle

(SSC Multi-Tasking Staff Exam. 30.04.2017 Ist Sitting)

- **837.** The fuse in an electric circuit is connected in
  - (1) series with neutral
  - (2) parallel to live
  - (3) parallel to neutral
  - (4) series with live

(SSC Multi-Tasking Staff Exam. 30.04.2017 Ist Sitting)

# **MANSWERS**

<b>1.</b> (4)	<b>2.</b> (1)	<b>3.</b> (3)	<b>4.</b> (1)
<b>5.</b> (1)	<b>6.</b> (1)	<b>7.</b> (2)	<b>8.</b> (2)
<b>9.</b> (1)	<b>10.</b> (2)	<b>11.</b> (3)	<b>12.</b> (1)
<b>13.</b> (1)	<b>14.</b> (3)	<b>15.</b> (1)	<b>16.</b> (3)
<b>17.</b> (2)	<b>18.</b> (4)	<b>19.</b> (2)	<b>20.</b> (2)
<b>21.</b> (2)	<b>22.</b> (3)	<b>23.</b> (4)	<b>24.</b> (1)
<b>25.</b> (2)	<b>26.</b> (3)	<b>27.</b> (4)	<b>28.</b> (1)
<b>29.</b> (2)	<b>30.</b> (1)	<b>31</b> . (2)	<b>32.</b> (4)
<b>33.</b> (1)	<b>34.</b> (3)	<b>35.</b> (4)	<b>36.</b> (1)
<b>37.</b> (3)	<b>38.</b> (3)	<b>39.</b> (1)	<b>40.</b> (3)
<b>41.</b> (1)	<b>42.</b> (2)	<b>43.</b> (1)	<b>44.</b> (1)
<b>45.</b> (3)	<b>46.</b> (2)	<b>47.</b> (2)	<b>48.</b> (2)
<b>49.</b> (2)	<b>50.</b> (4)	<b>51.</b> (2)	<b>52.</b> (3)
<b>53.</b> (1)	<b>54.</b> (3)	<b>55.</b> (2)	<b>56.</b> (2)
<b>57.</b> (4)	<b>58.</b> (3)	<b>59.</b> (2)	<b>60.</b> (2)
<b>61.</b> (2)	<b>62.</b> (1)	<b>63.</b> (3)	<b>64.</b> (3)
<b>65.</b> (3)	<b>66.</b> (4)	<b>67.</b> (3)	<b>68.</b> (3)
<b>69.</b> (4)	<b>70.</b> (4)	<b>71.</b> (1)	<b>72.</b> (3)
<b>73.</b> (4)	<b>74.</b> (4)	<b>75.</b> (2)	<b>76.</b> (3)
<b>77.</b> (3)	<b>78.</b> (2)	<b>79.</b> (3)	<b>80.</b> (3)
<b>81.</b> (3)	<b>82.</b> (2)	<b>83.</b> (3)	<b>84.</b> (1)
<b>85.</b> (1)	<b>86.</b> (4)	<b>87.</b> (2)	<b>88.</b> (3)
<b>89.</b> (2)	<b>90.</b> (3)	<b>91.</b> (2)	<b>92.</b> (2)
<b>93.</b> (4)	<b>94.</b> (1)	<b>95.</b> (3)	<b>96.</b> (4)
<b>97.</b> (4)	<b>98.</b> (1)	<b>99.</b> (4)	<b>100.</b> (2)
<b>101.</b> (3)	<b>102.</b> (4)	<b>103.</b> (3)	<b>104.</b> (3)
<b>105.</b> (1)	<b>106.</b> (2)	<b>107.</b> (2)	<b>108.</b> (4)
<b>109.</b> (3)	<b>110.</b> (3)	<b>111.</b> (2)	<b>112.</b> (1)
<b>113.</b> (4)	<b>114.</b> (3)	<b>115.</b> (1)	<b>116.</b> (3)
<b>117.</b> (3)	<b>118.</b> (1)	<b>119.</b> (3)	<b>120.</b> (2)
<b>121.</b> (3)	<b>122.</b> (2)	<b>123.</b> (2)	<b>124.</b> (4)
<b>125.</b> (4)	<b>126.</b> (4)	<b>127.</b> (3)	<b>128.</b> (4)
<b>129.</b> (4)	<b>130.</b> (1)	<b>131</b> . (2)	<b>132.</b> (3)
<b>133.</b> (2)	<b>134.</b> (1)	<b>135.</b> (3)	<b>136.</b> (4)
<b>137.</b> (4)	<b>138.</b> (3)	<b>139.</b> (2)	<b>140.</b> (1)
<b>141.</b> (2)	<b>142.</b> (1)	<b>143.</b> (3)	<b>144.</b> (3)
<b>145.</b> (3)	<b>146.</b> (1)	<b>147.</b> (2)	<b>148.</b> (4)
<b>149.</b> (2)	<b>150.</b> (2)	<b>151.</b> (3)	<b>152.</b> (4)
<b>153.</b> (1)	<b>154.</b> (2)	<b>155.</b> (2)	<b>156.</b> (2)
<b>157.</b> (2)	<b>158.</b> (4)	<b>159.</b> (3)	<b>160.</b> (4)
<b>161.</b> (3)	<b>162.</b> (3)	<b>163.</b> (2)	<b>164.</b> (3)

<b>165.</b> (3)	<b>166.</b> (1)	<b>167.</b> (1)	<b>168.</b> (4)
<b>169.</b> (3)	<b>170.</b> (4)	<b>171.</b> (3)	<b>172.</b> (3)
<b>173.</b> (1)	<b>174.</b> (4)	<b>175.</b> (4)	<b>176.</b> (3)
<b>177.</b> (3)	<b>178.</b> (3)	<b>179.</b> (2)	<b>180.</b> (4)
<b>181.</b> (2)	<b>182.</b> (4)	<b>183.</b> (1)	<b>184.</b> (1)
<b>185.</b> (1)	<b>186.</b> (1)	<b>187.</b> (1)	<b>188.</b> (1)
<b>189.</b> (1)	<b>190.</b> (2)	<b>191.</b> (1)	<b>192.</b> (2)
<b>193.</b> (2)	<b>194.</b> (3)	<b>195.</b> (1)	<b>196.</b> (1)
<b>197.</b> (3)	<b>198.</b> (4)	<b>199.</b> (3)	<b>200.</b> (3)
<b>201.</b> (1)	<b>202.</b> (2)	<b>203.</b> (2)	<b>204.</b> (1)
<b>205.</b> (2)	<b>206.</b> (1)	<b>207.</b> (3)	<b>208.</b> (2)
<b>209.</b> (2)	<b>210.</b> (1)	<b>211.</b> (3)	<b>212.</b> (3)
<b>213.</b> (1)	<b>214.</b> (4)	<b>215.</b> (3)	<b>216.</b> (4)
<b>217.</b> (4)	<b>218.</b> (3)	<b>219.</b> (2)	<b>220.</b> (2)
<b>221.</b> (2)	<b>222.</b> (2)	<b>223.</b> (3)	<b>224.</b> (1)
<b>225.</b> (1)	<b>226.</b> (1)	<b>227.</b> (4)	<b>228.</b> (4)
<b>229.</b> (4)	<b>230.</b> (4)	<b>231</b> . (3)	<b>232.</b> (2)
<b>233.</b> (1)	<b>234.</b> (3)	<b>235.</b> (1)	<b>236.</b> (1)
<b>237.</b> (2)	<b>238.</b> (3)	<b>239.</b> (1)	<b>240.</b> (3)
<b>241.</b> (1)	<b>242.</b> (3)	<b>243.</b> (1)	<b>244.</b> (3)
<b>245.</b> (1)	<b>246.</b> (3)	<b>247.</b> (4)	<b>248.</b> (3)
<b>249.</b> (2)	<b>250.</b> (4)	<b>251.</b> (3)	<b>252.</b> (4)
<b>253.</b> (2)	<b>254.</b> (4)	<b>255.</b> (1)	<b>256.</b> (2)
<b>257.</b> (3)	<b>258.</b> (1)	<b>259.</b> (4)	<b>260.</b> (4)
<b>261</b> . (4)	<b>262.</b> (4)	<b>263.</b> (2)	<b>264.</b> (1)
<b>265.</b> (2)	<b>266.</b> (3)	<b>267.</b> (1)	<b>268.</b> (4)
<b>269.</b> (1)	<b>270.</b> (1)	<b>271.</b> (3)	<b>272.</b> (2)
<b>273.</b> (1)	<b>274.</b> (3)	<b>275.</b> (1)	<b>276.</b> (3)
<b>277.</b> (3)	<b>278.</b> (4)	<b>279.</b> (3)	<b>280.</b> (4)
<b>281.</b> (2)	<b>282.</b> (3)	<b>283.</b> (2)	<b>284.</b> (1)
<b>285.</b> (4)	<b>286.</b> (1)	<b>287.</b> (4)	<b>288.</b> (3)
<b>289.</b> (2)	<b>290.</b> (2)	<b>291.</b> (2)	<b>292.</b> (2)
<b>293.</b> (2)	<b>294.</b> (3)	<b>295.</b> (1)	<b>296.</b> (4)
<b>297.</b> (1)	<b>298.</b> (3)	<b>299.</b> (4)	<b>300.</b> (2)
<b>301.</b> (3)	<b>302.</b> (4)	<b>303.</b> (1)	<b>304.</b> (2)
<b>305.</b> (2)	<b>306.</b> (1)	<b>307.</b> (3)	<b>308.</b> (2)
<b>309.</b> (1)	<b>310.</b> (2)	<b>311.</b> (3)	<b>312.</b> (3)
<b>313.</b> (2)	<b>314.</b> (2)	<b>315.</b> (4)	<b>316.</b> (4)
<b>317.</b> (3)	<b>318.</b> (3)	<b>319.</b> (2)	<b>320.</b> (2)
<b>321.</b> (2)	<b>322.</b> (2)	<b>323.</b> (1)	<b>324.</b> (2)
<b>325.</b> (2)	<b>326.</b> (2)	<b>327.</b> (3)	<b>328.</b> (2)
<b>329.</b> (2)	<b>330.</b> (2)	<b>331.</b> (1)	<b>332.</b> (4)