

Class: 10
Subject: Science
Topic: ASK1510UT03
No. of Questions: 60

Physics

- Q1. The radiation in the sunlight that gives us the feeling of hotness is _____.
(a) Visible radiation
(b) Infra – red
(c) Red
(d) Ultra- violet

Sol. (b)

- Q2. Which of the following is not a bio – mass source?
(a) Gobar gas
(b) Coal
(c) Wood
(d) Nuclear energy

Sol. (d)

- Q3. Harmful radiation emitted by the sun is _____.
(a) Visible
(b) Infra – red
(c) Ultra –violet
(d) Radio waves

Sol. (c)

- Q4. A substance which produces a lot of heat on burning is called _____.
(a) Oxidizing agent
(b) Biogas
(c) Biomass
(d) Fuel

Sol. (d)

- Q5. Fuel formed under the earth's surface by the decomposition of organic matter is called _____.
(a) Organic fuel
(b) Biogas
(c) Fossil fuel
(d) Underground fuel

Sol. (c)

- Q6. Which of the following causes the least pollution when burnt?
(a) Petrol
(b) Diesel
(c) Coal
(d) Natural gas

Sol. (d)

- Q7. The main constituent of LPG is _____.
(a) Methane
(b) Butane
(c) Hydrogen
(d) Propane

Sol. (b)

- Q8. The main constituent of CNG is _____.
(a) Methane
(b) Butane
(c) Ethane
(d) Propane

Sol. (a)

- Q9. Which of these is not a renewable source of energy?
(a) The sun
(b) Natural gas
(c) Wind
(d) Ocean tidal energy

Sol. (b)

Q10. The efficiency of the solar cooker can be increased by placing a ____.

- (a) Plane mirror
- (b) Convex mirror
- (c) Convex lens
- (d) Concave lens

Sol. (a)

Q11. The maximum temperature that can be attained in a box – type solar cooker is ____.

- (a) 200°C
- (b) 140°C
- (c) 80°
- (d) 250°

Sol. (b)

Q12. A solar cell is made up of ____.

- (a) Silicon
- (b) Titanium
- (c) Magnesium
- (d) Teflon

Sol. (a)

Q13. Which of the following is not combustible?

- (a) Oxygen
- (b) Hydrogen
- (c) Butane
- (d) Methane

Sol. (a)

Q14. The lid of the solar cooker is made up of ____.

- (a) Plastic sheet
- (b) Black sheet
- (c) Plane mirror
- (d) Glass

Sol. (d)

- Q15. In a solar panel, the metal used is ____
- (a) Gold
 - (b) Copper
 - (c) Silver
 - (d) Nickel

Sol. (c)

- Q16. A solar cell converts ____.
- (a) Heat energy into electrical energy
 - (b) Solar energy into electrical energy
 - (c) Heat energy into light energy
 - (d) Solar energy into light energy

Sol. (b)

- Q17. Floating generators are used in the sea to harness ____.
- (a) Tidal energy
 - (b) Wave energy
 - (c) Hydel energy
 - (d) Energy from OTEC power plant

Sol. (b)

- Q18. The molten material mixed with gasses in the mantle of the earth is called ____.
- (a) Core
 - (b) Lava
 - (c) Geyser
 - (d) Magma

Sol. (d)

- Q19. The source of energy of the sun is ____.
- (a) Nuclear fission
 - (b) Chemical reaction
 - (c) Nuclear fusion
 - (d) Photoelectric effect

Sol. (c)

- Q20. The fuel used in the nuclear reactor is _____.
- (a) Cadmium
 - (b) Radium
 - (c) Uranium
 - (d) Thorium

Sol. (c)

Chemistry

- Q1. Aluminum is used for making cooking utensils. Which of the following properties of aluminum are responsible for the same?
- (i) Good thermal conducting
 - (ii) Good electrical conductivity
 - (iii) Ductility
 - (iv) High melting point
- (a) (i) and (ii)
 - (b) (i) and (iii)
 - (c) (ii) and (iii)
 - (d) (i) and (iv)

Sol. (d)

- Q2. The solution of ash of magnesium ribbon is -
- (a) Acidic
 - (b) Basic
 - (c) Neutral
 - (d) All of these

Sol. (b)

- Q3. All materials shown property of malleability expect
- (a) Iron
 - (b) Graphite
 - (c) Aluminum
 - (d) Silver

Sol. (b)

Q4. When sulphur dioxide is dissolved in water then –

- (a) Sulphur is formed
- (b) Sulphur trioxide is formed
- (c) Sulphuric acid is formed
- (d) Sulphurous acid is formed.

Sol. (c)

Q5. Which one of the following does not react with acids?

- (a) Cu
- (b) Ni
- (c) Cr
- (d) O

Sol. (d)

Q6. Which one of the following gases burns with the “pop” sound?

- (a) Oxygen
- (b) Hydrogen
- (c) Chlorine
- (d) Hydrogen sulphide

Sol. (b)

Q7. Which non – metal catches fire if exposed to air

- (a) Sodium
- (b) Phosphorous
- (c) Calcium
- (d) Uranium

Sol. (b)

Q8. Which of these non-metals is a good conductor of electricity?

- (a) Mercury
- (b) Graphite
- (c) Iodine
- (d) Diamond

Sol. (b)

Q9. Layer of which metal is applied during galvanization?

- (a) Silver
- (b) Aluminum
- (c) Gold
- (d) Zinc

Sol. (d)

Q10. Which of the following is displaced by 'Cu'?

- (a) Fe^{2+}
- (b) Ag^+
- (c) Zn^{2+}
- (d) Al^{3+}

Sol. (b)

Q11. Of these, the least dense metal is _____.

- (a) Hg
- (b) Au
- (c) Cu
- (d) Na

Sol. (d)

Q12. Of these which metal will lose electrons most readily and form cations?

- (a) K
- (b) Zn
- (c) Cu
- (d) Au

Sol. (a)

Q13. Which oxide of a metal gets only be coke and not by H_2 gas CO gas?

- (a) Fe_2O_3
- (b) PbO
- (c) ZnO
- (d) CuO

Sol. (c)

Q14. Of these, which iron will get reduced most readily?

- (a) k^+
- (b) Zn^{2+}
- (c) Cu^{2+}
- (d) Ag^+

Sol. (d)

Q15. Pyrolusite is an ore of

- (a) Mn
- (b) Sn
- (c) Al
- (d) Mg

Sol. (a)

Q16. Which process is used for enrichment of oxides ores.

- (a) Chemical reduction
- (b) Hydraulic washing
- (c) Froth flotation
- (d) Magnetic

Sol. (b)

Q17. Which of the following alloy is used for joining metals for electrical work?

- (a) Solder
- (b) Bronze
- (c) German Silver
- (d) Amalgam

Sol. (a)

Q18. Galvanization process involves elements zinc and iron, which of the two metals is sacrificing its life to save the life of other.

- (a) Zn
- (b) None of these
- (c) Fe
- (d) Both sacrifice each other's life

Sol. (a)

Q19. Iron pillar to Delhi is made up of

- (a) Mixture of both peat and wrought
- (b) None of these
- (c) Peat Iron
- (d) Wrought Iron

Sol. (d)

- Q20. "Ringing of bell in the temple" is associated with which property of metal
- (a) Ductility
 - (b) Malleability
 - (c) Sonorous
 - (d) Brittle

Sol. (c)

Biology

- Q1. The information source for making proteins is
- (a) Rough Endoplasmic reticulum
 - (b) DNA
 - (c) Hormones
 - (d) Enzymes

Sol. (b)

- Q2. Male reproductive organ in flowering plant is
- (a) Carpel
 - (b) Stamen
 - (c) Corolla
 - (d) Ovary

Sol. (b)

- Q3. A fertilized ovule develops into a ____ in an angiosperm plant
- (a) Seed
 - (b) Fruit
 - (c) Flower
 - (d) Cotyledon

Sol. (a)

- Q4. Which of the following is not a part of the female reproductive system in human beings?
- (a) Ovary
 - (b) Uterus
 - (c) Vas deferens
 - (d) Fallopian tube

Sol. (c)

Q5. Binary fission in some organisms occurs in definite orientation in relation to the cell structures.

One such organism is:

- (a) Leishmania
- (b) Plasmodium
- (c) Amoeba
- (d) Bacteria

Sol. (c)

Q6. Plants that have lost their capacity to produce seeds reproduce by

- (a) Spores
- (b) Vegetative propagation
- (c) Fission
- (d) Regeneration

Sol. (b)

Q7. A stamen consists of two parts namely:

- (a) Anther and style
- (b) Anther and filament
- (c) Stigma and style
- (d) Filament and style

Sol. (b)

Q8. An unisexual flower

- (a) Do not have carpel
- (b) Do not have stamen
- (c) Has either carpel or stamen
- (d) Has either petal or sepal

Sol. (c)

Q9. _____ is a common tube for urine and sperm in human male.

- (a) Urethra
- (b) Uterus
- (c) Ureter

(d) None of the above

Sol. (a)

Q10. Eggs starts developing in human female

- (a) When she attains puberty
- (b) Only after her birth
- (c) After the first menstruation
- (d) When she is in her mother's womb

Sol. (d)

Q11. Which of the flower ripens to form a fruit?

- (a) Ovule
- (b) Ovary
- (c) Carpel
- (d) Egg cell

Sol. (b)

Q12. The testes perform the following function / functions:

- (a) Produce testosterone
- (b) Produce sperms
- (c) Produce male gametes and hormone
- (d) Produce sperm and urine

Sol. (c)

Q13. Where does fertilization take place in human beings?

- (a) Uterus
- (b) Vagina
- (c) Cervix
- (d) Fallopian Tube

Sol. (a)

Q14. Condom is a method of control that falls under the following category:

- (a) Surgical Method
- (b) Hormonal Method
- (c) Mechanical Method
- (d) Chemical Method

Sol. (c)

Q15. During adolescence, several changes occur in the human body. Mark one change associated with sexual maturation in boys.

- (a) Loss of milk teeth
- (b) Increase in height
- (c) Cracking of voice
- (d) Weight gain

Sol. (c)

Q16. Which among the following diseases?

- (a) Syphilis
- (b) Hepatitis
- (c) HIV – AIDS
- (d) Gonorrhoea

Sol. (b)

Q17. Tunica albuginea is the covering around

- (a) Ovary
- (b) Testis
- (c) Kidney
- (d) Heart

Sol. (b)

Q18. Seminiferous tubeless are composed of

- (a) Spermatogonia
- (b) Glandular epithelium
- (c) Sensory epithelium
- (d) Germinal epithelium

Sol. (d)

Q19. Development of embryo in human body takes place in

- (a) Ovary
- (b) Oviduct
- (c) Uterus
- (d) Ostium

Sol. (c)

Q20. Fusion of male and female gametes is termed as

- (a) Reproduction
- (b) Vegetative propagation
- (c) Cell division
- (d) Respiration

Sol. (a)

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