

Q1). Which acid is injected to our body when an ant bites ?

- A. Oxalic acid
- B. Formic acid
- C. Nitric acid
- D. Acetic acid

Q2). A chemical reaction does not show which of the following characteristics ?

- A. Evolution of gas
- B. Change in colour
- C. Change in energy
- D. Same chemical properties of reactants & products

Q3). Which of the following types of medicine is used for treating indigestion ?

- A. Antibiotic
- B. Analgesic
- C. Antacid
- D. Antiseptic

Q4). $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow \text{Al}_2\text{O}_3 + 2\text{Fe}$
The above reaction is an example of ?

- A. Combination reaction
- B. Double displacement reaction
- C. Decomposition reaction
- D. Displacement reaction

Q50). What is the valency of carbon ?

- A. 2
- B. 3
- C. 4
- D. 5

Q6). What byproduct is obtained when acid react with a base ?

- A. H_2
- B. H_2O
- C. O_2
- D. CO_2

Q7). Prevention of iron from rusting can be done by ?

- A. Painting
- B. Chrome plating
- C. Galvanising
- D. All of these

Q8). When oxidation & reduction takes place simultaneously in a reaction, it is said to be ?

- A. Decomposition reaction
- B. Displacement reaction
- C. Redox reaction
- D. Combination reaction

Q9). Which of the following metal can't be cut with a knife ?

- A. Lithium
- B. Lead
- C. Sodium
- D. Potassium

Q10). Which of the following non-metal is found in liquid state ?

- A. Bromine
- B. Oxygen
- C. Hydrogen
- D. Sulphur

Q11). What is the formula of Pentane ?

- A. C_5H_{10}
- B. C_4H_{10}
- C. C_5H_{12}
- D. C_4H_{12}

Q12). Element X forms a chloride with formula XCl_2 , which is a solid with a high melting point. X would most likely be in the same group of periodic table

- A. Na
- B. Mg
- C. Al
- D. Si

Q13). In which of the following concave mirror is not used ?

- A. Torch
- B. Rear-view mirrors in vehicles
- C. Vehicles headlights
- D. Shaving mirrors

Q14). Propane, with the molecular formula C_3H_8 has covalent bonds

- A. 8
- B. 10
- C. 12
- D. 14

Q15). Which of the following statement is incorrect ?

- A. Metallic character increases down the group

- B. Effective nuclear charge acting on valence shell electrons increases across a period
- C. Electrons are tightly bound to the nucleus when we move down the group.
- D. Atomic radius decreases across the period.

Q16). On what factors does the resistance of a material depends ?

- A. Area of material
- B. Nature of material
- C. Temperature
- D. All of these

Q17). A concave lens has focal length of 15 cm. At what distance should the object from the lens be placed so that it forms an image at 10 cm from the lens ?

- A. 15 cm
- B. 25 cm
- C. 30 cm
- D. 35 cm

Q18). An electric bulb is connected to a 110V generator. The current is 0.20A. What is the power of bulb (in watt)?

- A. 20 W
- B. 22 W
- C. 24 W
- D. 26 W

Q19). A spherical mirror & a thin spherical lens have each a focal length of 10 cm. The mirror & the lens are likely to be

- A. Both concave

- B. Both convex
- C. Mirror is concave & lens is convex
- D. Mirror is convex but lens is concave

Q20). Two conducting wires of the same material of equal lengths & equal diameters are first connected in series & then parallel in a circuit across the same potential difference. The ratio of heat produced in series & parallel combinations would be :

- A. 1:2
- B. 2:1
- C. 1:4
- D. 4:1

Q21). The essential difference between an AC generator & a DC generator is that

- A. AC generator has an electromagnet while a DC generator has permanent magnet
- B. DC generator will generate a higher voltage
- C. AC generator will generate a higher voltage
- D. AC generator has slip rings while the DC generator has a commutator.

Q22). Name the instrument used for producing electric current in a circuit ?

- A. Ammeter
- B. Voltmeter
- C. Galvanometer
- D. Generator

Q23). An electric motor is a rotating device that converts

- A. Mechanical energy to electrical energy
- B. Electrical energy to heat energy
- C. Electrical energy to mechanical energy
- D. Mechanical energy to heat energy

Q24). Which of the following is not a non-conventional source of energy ?

- A. Solar energy
- B. Tidal energy
- C. Wave energy
- D. Thermal power plant

Q25). A magnetic field is applied in north direction & current is moving out of the plane towards the viewer, then what is the direction of force ?

- A. Towards east
- B. Towards west
- C. In direction of current
- D. In direction of magnetic field

Q26). Which of the following is a non-renewable source of energy ?

- A. Wind energy
- B. Energy from fossil fuels
- C. Solar energy
- D. Biomass

Q27). Which gas is used to prevent flush bags of chips from getting oxidized ?

- A. Hydrogen
- B. Nitrogen
- C. Phosphorus
- D. Sulphur

Q28). Which of the following is not an example of a bio-mass energy source ?

- A. Wood
- B. Gobar-gas
- C. Nuclear energy
- D. Coal

Q29). Name the process involved in nuclear energy generation ?

- A. Nuclear fission
- B. Nuclear fusion
- C. Combustion
- D. None of these

Q30). What is the chemical formula of baking soda ?

- A. Na_2CO_3
- B. NaHCO_3
- C. $\text{Ca}(\text{OH})_2$
- D. CaSO_4

Q31). The total mass of the elements present in the products of a chemical reaction has to be equal to the total mass of the elements present in the reactants. Such reactions are generally known as ;

- A. Chemical equations
- B. Balanced chemical equations
- C. Combination reactions
- D. None of these

Q32). Litmus solution is a purple dye, extracted from which of the following ?

- A. Algae

- B. Bryophyte
- C. Lichens
- D. Fungi

Q33). What is the percentage of carbon dioxide present in the atmosphere ?

- A. 0.03%
- B. 0.02%
- C. 0.01%
- D. 0.05%

Q34). What is the number of vertical columns (Groups) in the Modern periodic table ?

- A. 16
- B. 14
- C. 18
- D. 20

Q35). Carbon & energy requirements of the autotrophic organisms are fulfilled by which of the following life processes ?

- A. Photosynthesis
- B. Respiration
- C. Nutrition
- D. None of these

Q36). The opening & closing of the stomatal pore is the function of which of the following cells ?

- A. Subsidiary cells
- B. Mesophyll cells
- C. Guard cells
- D. Epidermal cells

Q37). Which of the following is the carrier of oxygen during transportation in human beings ?

- A. WBCs
- B. Plasma
- C. RBCs
- D. Pletlets

Q38). Water & minerals obtained from soil move in plants through

- A. Xylem
- B. Phloem
- C. Parenchyma
- D. All of these

Q39). The nervous system (tissue) is made up of which of the following units ?

- A. Exons
- B. Freon's
- C. Neurons
- D. Axons

Q40). The upward & downward growth of shoots & roots respectively in response to the pull of earth is called as ?

- A. Geotropism
- B. Hydrotropism
- C. Thigmotropism
- D. Phototropism

Q41). Which of the following hormone stimulates pituitary gland to release hormones ?

- A. Insulin
- B. Thyroxin
- C. Testosterone
- D. Adrenaline

Q42). The fission mode of reproduction is the characteristics of which of the following organism ?

- A. Multicellular
- B. Unicellular
- C. Acellular
- D. None of these

Q43). Budding is the characteristic feature of

- A. Hydra
- B. Fasciola
- C. Bacteria
- D. Amoeba

Q44). Pistil is the term given to which of the following floral parts ?

- A. Sepal
- B. Petal
- C. Ovary, Style & Stigma
- D. Anther & Filament

Q45). Which of the following is not a part of female reproductive system in human beings ?

- A. Vas deferens
- B. Ovary
- C. Uterus
- D. Fallopian tube

Q46). The anther contains

- A. Sepals
- B. Petals
- C. Ovules
- D. Pollen grains

Q47). Who is known as Father of Genetics ?

- A. Gregor John Mendel
- B. Charles Robert Darwin
- C. Harold C. Urey
- D. Stanley L. Miller

Q48). Preserved traces of living organisms are called as ;

- A. Remnants
- B. Fossils
- C. Vestiges
- D. Sediments

Q49). Which of the following part of human eye regulates & controls the amount of light entering the eye ?

- A. Iris
- B. Cornea
- C. Pupil
- D. Retina

Q50). The defect of vision 'Near sightedness' is also known as

- A. Myopia
- B. Hypermetropia
- C. Presbyopia
- D. None of these

Q51). The human eye forms the image of an object at its

- A. Cornea
- B. Iris
- C. Retina
- D. Pupil

Q52). Which of the following is a correct sequence of flow of energy in ecosystem ?

- A. Sunlight ---> Producers ---> Primary consumer ---> Secondary consumer ---> Top consumers
- B. Sunlight ---> Producers ---> Top consumers ---> Primary consumer ---> Secondary consumers
- C. Producer ---> Sunlight ---> Top consumer ---> Primary consumer ---> Secondary consumer
- D. Producer ---> Sunlight ---> Primary consumer ---> Secondary consumer ---> Top consumer

Q53). The ozone layer performs which of the following essential functions ?

- A. Prevent skin cancer in human beings
- B. It shields the surface of the earth from UV radiations.
- C. Both A & B
- D. None of these

Q54). Which of the following constitute a food chain ?

- A. Grass ---> Fish ---> Goat
- B. Goat ---> Cow ---> Elephant
- C. Grass ---> Wheat ---> Mango
- D. Grass ---> Goat ---> Human

Q55). What happens when dilute HCl is added to iron fillings ?

- A. Hydrogen gas & iron chloride are produced

- B. Chlorine gas & iron hydroxide are produced
- C. No reaction takes place
- D. Iron salt & water are produced

Q56). Which of the following is a naturally occurring acid found in tomato ?

- A. Oxalic acid
- B. Citric acid
- C. Acetic acid
- D. Lactic acid

Q57). What is the common name of the compound CaOCl_2 ?

- A. Baking soda
- B. Bleaching powder
- C. Washing soda
- D. Plaster of Paris

Q58). Units of Kidney are ;

- A. Neurons
- B. Axon
- C. Exon
- D. Nephrons

Q59). Which of the following is a plant hormone ?

- A. Cytokinin
- B. Insulin
- C. Thyroxin
- D. Oestrogen

Q60). Hug the tree movement (Chipko Andolan) originated at

- A. Nainital

- B. Garhwal
- C. Bundelkhand
- D. Jodhpur

Q61). One square kilometer area is

- A. 10 ha
- B. 100 ha
- C. 500 ha
- D. 1000 ha

Q62). Number of textural classes of soil are ?

- A. 10
- B. 11
- C. 12
- D. 13

Q63). Which one is not a medicinal plant ?

- A. Ashwagandha
- B. Sarapgandha
- C. Congress grass
- D. Tulsi

Q64). Red rot disease infests the crop:

- A. Carrot
- B. Tomato
- C. Sugarcane
- D. Apple

Q65). Insects harm the crops through

- A. Roots & by sucking sap
- B. Foliage by eating/ chewing
- C. Damaging flowers & fruiting bodies
- D. All of the plant parts

Q66). Meetha neem (*Muraya koenigi*) is used in

RISE UP ACADEMY

B.SC (HONS) AGRI 6 YR PRG 2022 EXAM

- A. Sweets
- B. Vegetables & Kadhi
- C. Green fodder
- D. For brushing teeth

- C. Piazi
- D. Lily

Q72). The most dangerous colour found in the triangle on the pesticide containers is

- A. Blue
- B. Green
- C. Yellow
- D. Red

Q73). Parasitic weed on Mustard crop

- A. Hiran khuri
- B. Orobanche
- C. Striga
- D. Wild oat

Q74). Early & late blight disease infest

- A. Flowering plants
- B. Cereals
- C. Pulse crops
- D. None of these

Q75). ICAR – National Bureau of Animal Genetics Resources & National Dairy Research Institute are located at

- A. Karnal
- B. Anand
- C. Jhansi
- D. Jodhpur

Q76). MSP declared for number of crops for 2022-23 is

- A. 21
- B. 22

Q67). Environment Day is celebrated on

- A. 21 June
- B. 5 June
- C. 24 October
- D. 25 December

Q68). The maximum application of irrigation in India is done through

- A. Canals
- B. Wells
- C. Tube wells
- D. Ponds

Q69). Fall army worm damages

- A. Cotton
- B. Maize
- C. Gram
- D. Berseem

Q70). The shape of one acre field is

- A. Square
- B. Rectangle
- C. Quadrilateral
- D. Rhombus

Q71). Which is not an aquatic & marshy land plant ?

- A. Water hyacinth
- B. Azolla pinnata

- C. 23
- D. 24

Q77). Which of these crops are affected by Nematodes ?

- A. Cereals only
- B. Vegetables only
- C. Horticultural crops only
- D. All of these

Q78). Which of these is not a weed of kharif crops ?

- A. *Digera arvensis*
- B. *Trianthema portulacastrum*
- C. *Phalaris minor*
- D. *Echinochloa crusgalli*

Q79). How many soil samples from different depths at one spot are taken when a new orchard is to be planted ?

- A. 6
- B. 7
- C. 8
- D. 9

Q80). Which hand tool is not used in the field ?

- A. Gaiti
- B. Spade
- C. Sickle
- D. Wheel hand hoe

Q81). Which relation does not hold good ?

- A. $\% P_2O_5 = \% P \times 2.29$
- B. $\% K = \% K_2O \times 0.83$

- C. $\% N = 4 \text{ kg CAN}$
- D. $21\% (10 \text{ kg}) \text{ Zn} = 90 \text{ kg ZnSO}_5$

Q82). Sowing of maize can't be done by tractor operated implement/ machine

- A. Zero tillage machine
- B. Multi crop sowing machine
- C. Chisel plough
- D. Pneumatic planter

Q83). Which is not a deciduous tree ?

- A. Mulberry
- B. Poplar
- C. Mahaneem
- D. Casuirina

Q84). Which one of these are not plant based oilseed cake ?

- A. Castor, Mustard & Til
- B. Neem, Karanj & Mahua
- C. Cotton & Sunflower
- D. Pressmud & Gypsum

Q85). Which chemical should not be sprayed by drone ?

- A. Insecticide
- B. Weedicide
- C. Liquid fertilizers
- D. Growth promoters/ Retardants or Regulators

Q86). dS/m is the unit of

- A. Electrical conductivity of soil
- B. Wind speed

- C. Velocity of light
- D. Velocity of electric engine

Q87). Liquid Nano urea foliar spray provides

- A. Phosphorus
- B. Potassium
- C. Nitrogen
- D. Sulphur

Q88). Insects possess legs, wings & body parts, respectively

- A. 1 pair, 2 pairs & 3 body parts
- B. 2 pairs, 3 pairs & 3 body parts
- C. 3 pairs, 2 pairs & 3 body parts
- D. 3 pairs, 3 pairs & 3 body parts

Q89). Which of these insects are not farmer's friends ?

- A. Lady bird beetle, Preying mantis, Spider
- B. Chysoperla, Anacious, Trichograma
- C. Dragon fly, Cirfid fly, Rober fly
- D. White grub, White fly, Blister beetle

Q90). Which grass is used as fodder grass for feeding livestock?

- A. Lemon grass
- B. Rosha grass
- C. Hybrid napier grass
- D. Nut grass

Q91). Which is not at all a tractor operated implement ?

- A. Sub soiler

- B. Laser land leveler
- C. Kasola
- D. Multi purpose power thresher

Q92). Which earthworm species is most efficient ?

- A. *Eisenia foetida*
- B. *Endrilus engeniae*
- C. *Perionyx xcavatus*
- D. *Lampito mauritti*

Q93). Which is not a variety of Bajra ?

- A. HHB 311
- B. HHB 272
- C. DBW 303
- D. HHB 299

Q94). Sulphur is useful for

- A. In oilseed crops & pulse crops
- B. In onion & garlic only
- C. In reclamation of problematic soils only
- D. All of these

Q95). Which is the Basmati variety amongst these ?

- A. HKR 126
- B. HKR 47
- C. CSR 30
- D. HKR 48

Q96). Highest milk producing state in India ?

- A. Punjab
- B. Andhra Pradesh
- C. Haryana
- D. Utter Pradesh

Q97). Foot & Mouth disease in Cattles is caused by

- A. Virus
- B. Protozoa
- C. Fungi
- D. Bacteria

Q98). 'Sahiwal' is the breed of ?

- A. Sheep
- B. Goat
- C. Cow
- D. Buffalo

Q99). Which is not important cropping system of Haryana ?

- A. Bajra-Wheat
- B. Cotton-Wheat
- C. Rice-Wheat
- D. Rice-Rice

Q100). Which of the following is not a green manure crop ?

- A. Barley
- B. Moong
- C. Dhaincha
- D. Cowpea