

Annual Examination 2022

Class - 9th

Subject - Science

Time 3 hours

Maximum marks 80.

Instruction:

1. All questions are compulsory
2. Question no. 1 to 4 objective type question.(total 32 marks)
3. Question no. 5 to 14 each question contain two marks(word limit 30 words)
4. Question no. 15 to 18 each question contain 3 marks(word limit 75 words)
5. Question no.19 to 22 each question contain 4 marks (word limit 120 words.)
6. Internal options are given in question no. 5 to 22

Q.1 Choose the correct option.

1. Phosphorus molecule is
A. diatomic B. triatomic C. triatomic D. monoatomic
2. Which step is not involved in the carbon cycle
A. photosynthesis B. transpiration
C. respiration. D. burning of fossil fuels
3. Proton is discovered by
A. chadwick B. niels bore C. JJ Thomson D. Rutherford
4. Maximum composition of air made by
A. Oxygen B. Nitrogen C. carbon dioxide D. methane
5. The flexibility in plants is due to a tissue called
A. chlorenchyma. B. sclerenchyma
C. Parenchyma. D. Collenchyma
6. Penicillin is an
A. antibiotics. B. antibody C. pathogen. D. host

4. What is the position of electron in an atom
5. What is mixed farming
6. Full form of HIV
7. Meaning of lithosphere
8. Audible range of human beings

Q.5 what is osmosis ?

or

which organelles is known as the powerhouse of the cell?

Q.6 how many types of elements together make up the xylem tissue name them ?

Or

what are polyatomic ions give example?

Q.7 what is the kinetic energy of an object aur an electric heater is related 1500 watt how much energy does it use in 10 hours?

Or

Calculate the wavelength of a sound wave whose frequency is 220 Hz and speed is 440 m/s in a given medium.

Q.8 why are sound waves called mechanical waves?

Or

Explain how bats use ultrasound to catch a prey?

Q.9 define antibiotic ?explain how it is able to control bacterial infection but not viral infection?

Or

What is genetic manipulation how is it useful in agricultural practices?

7. Infrasonic sound can be heard by
 A. dog B. bat C. rhinoceros D. human beings
8. Falling ball will have
 A. kinetic energy. B. potential energy C. both D. none

Q. 2. Fill in the blanks

1. Electronic configuration of Aluminium is.....
2. Molecular mass of hydro sulphuric acid is
3. Causal organism of any disease is called as.....
4. Powerhouse of cell is.....
5. Vector of malaria disease is.....
- 6..... Is water conductive tissue of plant
7. Blood is the type of..... tissue
- 8..... Crop grow in winter season

Q.3 match the column A with B

| Column A | column B |
|-----------------|----------------------------|
| 1. Tetanus. | treponema pallidum |
| 2. Cholera | salmonella typhi |
| 3. Syphilis. | variola virus |
| 4. tuberculosis | clostridium tetani |
| 5. Typhoid. | rhinovirus |
| 6. Smallpox | mycobacterium tuberculosis |
| 7. Chicken pox | vibrio cholerae |
| 8. Common cold | varicella zoster |

Q. 4 write the answer in one word or sentence

1. What is the outermost covering of plant cell
2. Full form of ATP
3. Full form of AIDS

What is the role of epidermis in plants?

Q.17 describe with the help of diagram how compression and rarefaction are produced in a near a source of sound?

Or

Differentiate the following

- a. Power and average power
- b. Loudness and intensity of sound

Q.18 describe Bohr model of atom.

Or

How will you find the valency of chlorine sulphur magnesium?

Q.19 compare the use of manure and fertilizers in maintaining soil fertility.

Or

What are the advantages of intercropping and crop rotation?

Q.20 how are clouds formed?

Or

How does the atmosphere act as a blanket?

Q.21 what are the different means by which infectious diseases spread?

Or

How is soil formed?

Q.22 explain the working and application of a sonar with diagram.

Or

Explain how the human ear work with diagram.

Q.10 how do biotic and abiotic factors affect crop production?

Or

Give the structure of nitrogen cycle in nature.

Q.11 write the postulates of Dalton atomic theory.

Or

Compare the properties of electron ,proton and neutron.

Q.12 Draw the structure of eukaryotic cells .

Or

Differentiate between parenchyma ,collenchyma and sclerenchyma tissues

Q.13 find the energy in kWh consumed in 10 hours by four device of power 500 Watt each. <https://www.mpboardonline.com>

Or

Calculate the work required to be done to stop a car of 1500 kg moving at a velocity of 60 km/h ?

Q.14 give practical application of reflection of sound waves.

Or

Explain how defect in a metal block can be detected using ultrasound?

Q.15 what are the wavelength ,frequency ,time period ,and amplitude of a sound wave?

Or

Explain the all types of diseases with example.

Q.16 how is a prokaryotic cell different from a eukaryotic cell?

Or