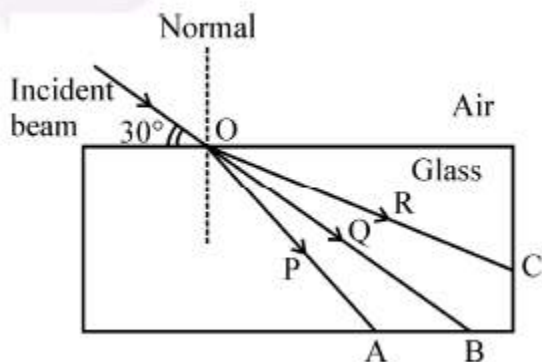


## Rajasthan Board Class 10 Science Important Questions

- 1) Deficiency of which vitamin causes the bending of the bones of legs and the knees coming closer?
- 2) Draw symbolic symbol of electric cell and rheostat
- 3) Write the blood group of a person whose genotype is  $ii$ .
- 4) Write definition of "Biodiversity".
- 5) Write General formula of the alkyne series.
- 6) Write joule units in one kilowatt hour (1 kWh).
- 7) How many hotspots of biodiversity are in the world?
- 8) Write two isotopes of chlorine.
- 9) Write name of Parasite which causes Malaria disease
- 10) Write the name of reproductive process in the plants which have lost the capacity to produce seeds
- 11) The magnetic field in a given region is uniform. Draw a diagram to represent it.
- 12) Give the number of periods and groups in the Modern Periodic Table.
- 13) What two precautions should be taken to avoid the overloading of domestic electric circuits?
- 14) What is the ability of the eye lens to adjust its focal length called?
- 15) Explain the harmful effects of use of tobacco, alcohol and opium on human health giving two examples each.
- 16) What are dispersive powers? Describe any two internal dispersive power.
- 17) Describe Big Bang theory of the generation of universe
- 18) What is fossil? Write the name of two vestigial organs found in the human body.
- 19) Write any one difference between the following:
  - (a) Positive and Negative catalyst.
  - (b) Thermolysis and Electrolysis.

(c) Addition and Replacement reaction.

20) In the given ray diagram write the value of angle of incidence and name of refracted ray.



21) Write four characteristics of the good source of energy.

22) Why do we have two eyes for vision and not just one? Explain the fact on the basis of –

- (a) Field of view
- (b) Dimensional view

23) What is a redox reaction? In the reaction  $\text{ZnO} + \text{C} \rightarrow \text{Zn} + \text{CO}$  which substance gets oxidised and which gets reduced?

24) What factors could lead to the rise of a new species? Explain.

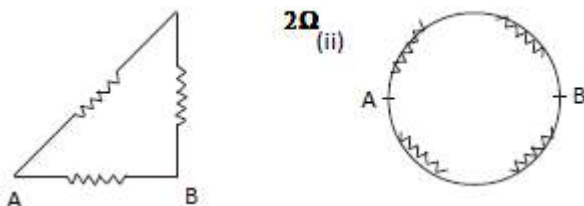
25) A current of 0.25 ampere is flowing through a filament of an electric bulb for 20 min. Find the amount of electric charge that flows through the circuit.

26) Draw a linear diagram of sex determination in human beings

27) (a) Draw a labelled diagram of neuromuscular junction.

(b) Compare nervous and hormonal mechanisms for control and co-ordination in animals.

28) Calculate equivalent resistance between A and B in the following Circuits.



- 29) Write common and botanical names of any four medicinal plants.
- 30) What is a reciprocal cross? Explain the phenotypic and genotypic ratio obtained in offspring, when F1 generation is crossed with Homozygous dominant parents.
- 31) If long plants of pea with round seeds are crossed with short plants with wrinkled seeds, which type of plants will be obtained in the first and second generations? Write the phenotypic ratio of plants obtained in second generation (F2).
- 32) Draw a labelled diagram of reflex arc and explain reflex action
- 33) If an egg is not fertilized then what happens? Explain it.
- 34) In the reaction  $\text{CuO} + \text{H}_2 \rightarrow \text{Cu} + \text{H}_2\text{O}$  which substance gets oxidised and which gets reduced?
- 35) Write short notes on the following:  
(a) Fragmentation (b) Regeneration (c) Budding.
- 36) (i) Draw a labelled Diagram of the human eye. (ii) Write reasons and remedies for Myopia, Hypermetropia and Presbyopia.
- 37) A. (i) Write there postulates of Rutherford's Atomic model.  
(ii) Why Rutherford's Atomic model is known as "Model of Solar System."  
(iii) Give two short-comings of Rutherford Atomic Model.
- B. Arrange the elements in ascending order of their metallic property
- 38) (i) What is the effect of hydrogen ion  $[\text{H}^+]$  concentration on the nature of the solution ?  
(ii) When acid is diluted, acid is added in water, not water in acid. Give reason.  
(iii) Name the acid present in orange and tamarind.  
(iv) What is chlor-alkali process?
- 39) (a) Describe the components of an ecosystem.  
(b) Explain stakeholders of resources.
- 40) (a) Write Fleming's left-hand rule for the direction of force on a current carrying conductor placed in a magnetic field.  
(b) Draw a diagram to show lines of magnetic field inside and around a current carrying solenoid.

(c) Write the names of four devices where current carrying conductor is used along with magnetic fields

