



GRADE 11 - FIRST TERM EVALUATION, 2020

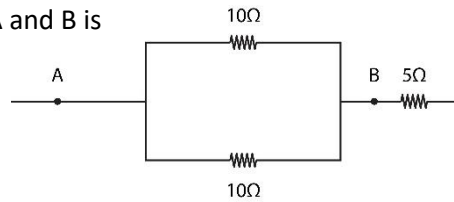
SCIENCE - I

Answer All Questions.

- 1) International unit of measuring quantity of matter is,
- i. Newton
 - ii. Kilogram
 - iii. Liter
 - iv. Mole

- 2) The equivalent resistance between the points A and B is

- i. 25Ω
- ii. 10Ω
- iii. 5Ω
- iv. 15Ω



- 3) Correct statement about the children born to hemophilia carrier mother and normal father
- i. All the children are normal
 - ii. Male children are normal
 - iii. Normal as well as diseased male children could be possible
 - iv. There may be no carrier female children

- 4) Which of the following process indicates the transport of pollen from the stamen of flower to the stigma of the same flower?

- i. Cross pollination
- ii. Self-pollination
- iii. Fertilization
- iv. Dispersion

- 5) What is the SI unit of moment of force?

- i. Kgms⁻¹
- ii. Nm
- iii. N
- iv. Ns⁻¹

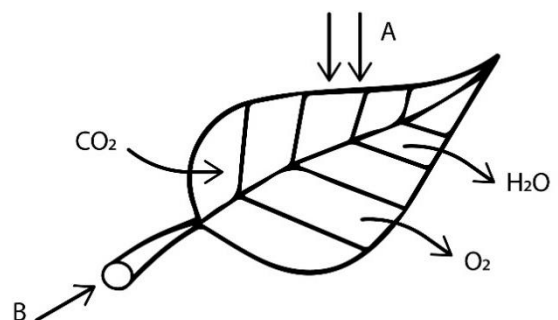
- 6) The molecular formula of water is H₂O. The number of atoms in 18g of water is (O=16, H=1)

- i. 6.022 x 10²³
- ii. 2 x 6.022 x 10²³
- iii. 3 x 6.022 x 10²³
- iv. 18 x 6.022 x 10²³

- 7) In cells chromosomes are found inside

- i. Nucleus
- ii. Cytoplasm
- iii. Mitochondria
- iv. Chloroplast

- 8) $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$ (Ca=40, C=12, O=16) According to the information given here which of the following conclusions cannot be reached by you?
- It is a balance equation.
 - Calcium carbonate should be heated vigorously for decomposition.
 - 100 grammes of Calcium Carbonate will produce 44 grammes of Carbon Dioxide.
 - 10 grammes of Calcium Carbonate will produce 5.6 of Calcium Oxide.
- 9) The group of organisms in which organized nucleus cannot be seen is.
- Fungi
 - Virus
 - Algae
 - Protozoa
- 10) The gravitational potential energy of an object of mass 7.5Kg at a vertical height of 4m is,
- 150J
 - 300J
 - 100J
 - 30J
- 11) Which of the following tissues transport the glucose produced in leaves of plants during photosynthesis, down to the roots of the plant?
- Xylem
 - Cambium
 - Phloem
 - Pith
- 12) Which of the following are striated among the three types of muscles found in human body?
- Skeletal muscles and smooth muscles only
 - Smooth muscles and Cardiac muscles only
 - Skeletal muscles and Cardiac muscles only
 - Skeletal muscles, smooth muscles and cardiac muscles
- 13) Minimum time to destarch a plant is,
- 12 hrs
 - 24 hrs
 - 48 hrs
 - 36 hrs
- 14) The substances that enter and leave the leaf of a plant during photosynthesis are shown in the diagram. Here A and B are respectively,
- Sunlight and Chloroplast
 - Water and Salt
 - Sunlight and Water
 - Chloroplast and Water



- 15) The composition of a solution of Sodium chloride is 58.5 g dm^{-3} . What is the response that gives the composition of this solution expressed correctly in another way? (Na=23, Cl=35.5)
- 58.5 mol dm^{-3}
 - 5.85 mol dm^{-3}
 - 1 mol dm^{-3}
 - 0.1 mol dm^{-3}
- 16) The mole fraction of NaOH in a solution where 3 moles of NaOH is dissolved in 5 moles of water,
- $\frac{(3+5)}{3}$
 - $\frac{3}{(3+5)}$
 - $\frac{3}{5}$
 - $\frac{5}{3}$
- 17) The most suitable specimen to observe sclerenchyma tissue is,
- Agave Fibers
 - Part taken from apple fruit
 - Stem of pumpkin
 - Petal of flower
- 18) The position of the element of atomic number 16 in the periodic table is,
- VI group of 1st period
 - VI group of 3rd period
 - III group of 6th period
 - III group of 3rd period
- 19) Correct statement about a transverse wave,
- Medium as a whole moved towards the direction of wave transmission.
 - Energy transmitted along the medium by the vibrating particles.
 - The Velocity of wave is always constant.
 - Vibration of particles take place along the direction of wave.
- 20) Sound travels through air in the form of
- Transverse waves
 - Longitudinal waves
 - Mechanical waves
 - Micro waves