

Tsi9S

Tenkasi District
Common Quarterly Examination - 2023

Standard 9
SCIENCE
Part - I

Marks: 75

Time: 3.00 Hours

12x1=12

I. Choose the correct answer:

- 1 metric ton is equal to
 - 100 quintals
 - 10 quintals
 - $\frac{1}{10}$ quintals
 - $\frac{1}{100}$ quintals
- The centrifugal force is
 - a real force
 - the force of reaction of centripetal force
 - a virtual force
 - directed towards the centre of the circular path.
- The size of an air bubble rising up in water.
 - decreases
 - increases
 - remains same
 - may increase or decrease
- When we mix a drop of ink in water we get a
 - Hetrogeneous mixture
 - compound
 - Homogenous mixture
 - Suspension
- Among the following the odd pair is
 - $^{18}_8\text{O}, ^{19}_9\text{F}$
 - $^{40}_{18}\text{Ar}, ^{14}_7\text{N}$
 - $^{30}_{14}\text{Si}, ^{31}_{15}\text{P}$
 - $^{40}_{20}\text{Cr}, ^{39}_{19}\text{K}$
- Elements in the modern periodic table are arranged in groups and periods.
 - 7, 18
 - 18, 7
 - 17, 8
 - 8, 17
- The animal without skill is
 - Acrania
 - Acephalia
 - Apteria
 - Acoelomate
- Smooth muscles occur in
 - Uterus
 - artery
 - Vein
 - All of the above
- The bending of root of a plant in response to water is called
 - Thigmonasty
 - phototropism
 - Hydrotropism
 - photonasty
- The tropic movement that helps the climbing vines to find a suitable support is
 - phototropism
 - Geotropism
 - Thigmotropism
 - Chemotropism
- Least count of screw gauge is
 - 0.01 mm
 - 0.01cm
 - 0.1mm
 - 0.1cm
- Among the following is a mixture.
 - Common salt
 - Juice
 - Carbon dioxide
 - Pure silver

Part - II

II. Answer any seven of the following: Q.No: 16 is compulsory.

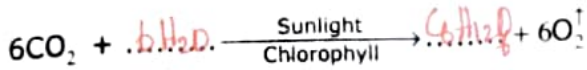
7x2=14

- What is the full form of SI system.
- Define least count of any device
- Compare speed and velocity?
- State pascals law?

Kindly send me your study materials to padasalai.net@gmail.com

Ts/9S

- 17) Define Sublimation?
- 18) 1) Chromatography is based on the principle of
2) In petroleum refining the method of separation used is
- 19) Match
- | | | |
|---------------|---|-----------------------|
| a) Dalton | - | Hydrogen atom model |
| b) Chadurick | - | Discovery of nucleus |
| c) Rutherford | - | First atomic theory |
| d) Neils Bohr | - | Plum pudding Model |
| | - | Discovery of neutrons |
- 20) List the respiratory organs of amphibians.
- 21) State whether true or false. If false, correct the statement.
- a) Phloem is made up of trachids **F**
b) Vessels are found in collenchyma **F**
- 22) Fill in the blanks.

**Part - III****7x4=28****III. Answer any seven questions:**

- 23) Differentiate mass and weight.
- 24) Describe the construction and working of mercury barometer.
- 25) How are homogenous solutions different from heterogenous solution? Explain with examples.
- 26) Draw structure of oxygen and Sulphur atoms.
- 27) What are the limitation of Mandeleev's periodic table?
- 28) How are the limbs of the birds adapted for avian life?
- 29) What is complex tissue? Name various kinds of complex tissues.
- 30) How will you differentiate the different types of transpiration?
- 31) Out line the flow chart of phylum chordata.
- 32) List five characteristic features of fishes.

Part - IV**3x7=21****IV. Answer in detail.**

- 33) 1) Explain different types of motion.
(OR)
2) With an appropriate illustration prove that the force acting on a smaller area exerts a greater pressure.
- 34) 1) Explain Tyndall effect and Brownian movement with suitable diagram.
(OR)
2) What are nucleons? How many nucleons are present in phosphorous? Draw its structure.
- 35) 1) Give an account on phylum Arthropods
(OR)
2) List out the difference between mitosis and meiosis.