

Tsi-9S

Tenkasi District Common Examinations
Common Quarterly Examination - September 2022

**Standard 9****SCIENCE**

Marks: 75

Time: 3.00 Hrs.

PART - I**12×1=12****Choose the best answer:**

- 1) Choose the correct one.

a) mm < cm < m < km	b) mm > cm > m > km
c) km < m < cm < mm	d) mm > m > cm > km
- 2) Which one of the following is most likely not a case of uniform circular motion?
 - a) Motion of the Earth around the sun.
 - b) Motion of a toy train on a circular track.
 - c) Motion of a racing car on a circular track.
 - d) Motion of hours hand on the dial of the clock.
- 3) The size of an air bubble rising up in water

a) decreases	b) increases
c) remains same	d) may increase or decrease
- 4) Clouds float in atmosphere because of their law

a) density	b) pressure	c) velocity	d) mass
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- 5) The separation of denser particles from lighter particles done by rotation at high speed is called _____.

a) filtration	b) sedimentation	c) decantation	d) centrifugation
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- 6) The number of protons, neutrons and electrons present respectively in $^{80}_{35}\text{Br}$ are

a) 80, 80, 35	b) 35, 55, 80	c) 35, 35, 80	d) 35, 45, 35
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- 7) Elements in the modern periodic table are arranged in _____ groups and _____ periods.

a) 7, 18	b) 18, 7	c) 17, 8	d) 8, 17
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- 8) Modern periodic law states that the physical and chemical properties of elements are the periodic functions of their _____.

a) atomic numbers	b) atomic masses
c) similarities	d) anomalies
- 9) Which of the following pairs is not a poikilothermic animal?

a) Fishes and Amphibians	b) Amphibians and Aves
c) Aves and Mammals	d) Reptiles and Mammals
- 10) Companion cells are closely associated with _____.

a) sieve elements	b) vessel elements
c) trichomes	d) guard cells
- 11) Chlorophyll in a leaf is required for _____.

a) photosynthesis	b) tropic movement
c) transpiration	d) nastic movement
- 12) Which key to be pressed to run a slide show?

a) F1	b) Tab	c) F5	d) F12
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PART - II**Answer ANY SEVEN questions. Q.No. 22 is compulsory:****7×2=14**13) **Match the following:**

Physical quantity	Unit
a) Length	i) Kelvin
b) Mass	ii) Metre
c) Time	iii) Kilogram
d) Temperature	iv) Second

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- 14) Distinguish distance and displacement.
- 15) a) The instrument used to measure atmospheric pressure is _____
b) A drinking straw works on the existence of _____.
- 16) Name the apparatus that you will use to separate the components of mixtures containing two (i) miscible liquids (ii) immiscible liquids.
- 17) **State true or false. If false, correct the statement:**
a) Isotopes of an element have different atomic numbers.
b) The maximum number of electrons in L shell is 10
- 18) State Modern periodic Law
- 19) List the respiratory organs of amphibians.
- 20) What is complex tissue? Name the various kinds of complex tissue.
- 21) $6\text{CO}_2 + \text{_____} \xrightarrow[\text{Chlorophyll}]{\text{Sunlight}} \text{_____} + 6\text{O}_2 \uparrow$
- 22) A man whose mass is 90 kg stands on his feet on a floor. The total area of contact of his two feet with the floor is 0.036m^2 (Take, $g = 10\text{ms}^{-2}$). How much is the pressure exerted by him on the floor?

PART - III**Answer ANY SEVEN questions. Q.No. 32 is compulsory:****7×4=28**

- 23) Write the rules that are followed in writing the symbols of units in SI system.
- 24) Explain different types of motion.
- 25) State the laws of flotation.
- 26) Write the differences between elements and compounds and give example for each.
- 27) Calculate the number of neutrons, protons and electrons.
i) atomic number 3 and mass number 7.
ii) atomic number 92 and mass number 238.
- 28) State any five features of modern periodic table.
- 29) List five characteristic feature of fishes.
- 30) a) **Match the following:**
- | | | |
|----------------|---|--------------|
| Sclereids | - | Chlorenchyma |
| Chloroplast | - | Sclerenchyma |
| Simple tissue | - | Collenchyma |
| Companion cell | - | Xylem |
| Trachieds | - | Phloem |
- b) What is skeletal connective tissue? How is it helpful in the functioning of our body?
- 31) Differentiate between tropic and nastic movements.
- 32) Draw the structure of oxygen and sulphur atoms.

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PART - IV**Answer the following questions:****3×7=21**

- 33) How will you find the thickness of a one rupee coin?
(OR)
Describe the construction and working of mercury barometer
- 34) What conclusions were made from the observations of Gold foil experiment?
(OR)
Explain Tyndall effect and Brownian movement with suitable diagram.
- 35) What are permanent tissues? Describe the different types of simple permanent tissues.
(OR)
How will you differentiate the different types of transpiration?

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