

Tsi10S

Tenkasi District
Common First Mid Term Test - 2024



31-07-2024

Time: 1.30 Hrs.

Standard 10**SCIENCE**

Marks: 50

Part - I**Answer all the questions.****I. Choose the best option:****10×1=10**

- 1) The inertia of a body depends on _____.
 - a) weight of the body
 - b) acceleration due to gravity of the planet
 - c) mass of the object
 - d) both a and b
- 2) Magnification of a convex lens is
 - a) positive
 - b) either positive or negative
 - c) negative
 - d) zero
- 3) Mass of 1 mole of nitrogen atom is _____.
 - a) 28 amu
 - b) 14 amu
 - c) 28g
 - d) 14g
- 4) _____ is a relative periodic property.
 - a) Atomic radii
 - b) Ionic radii
 - c) Electron affinity
 - d) Electron negativity
- 5) Casparin strips are present in of the root _____.
 - a) Cortex
 - b) Pith
 - c) Pericycle
 - d) Endodermis
- 6) Mammals are animals
 - a) Cold blooded
 - b) Warm blooded
 - c) Poikilothermic
 - d) All the above
- 7) During transpiration there is loss of
 - a) Carbon dioxide
 - b) Oxygen
 - c) Water
 - d) None of the above
- 8) 'Heart of heart' is called
 - a) SA node
 - b) AV node
 - c) Purkinje fibre
 - d) Bundle of His
- 9) Which gives red colour to blood _____.
 - a) Haemoglobin
 - b) Sucrose
 - c) Glucose
 - d) Guard cells
- 10) Bipolar neurons are found in
 - a) retina of eye
 - b) cerebral cortex
 - c) embryo
 - d) respiratory epithelium

Part - II**II. Answer ANY 5 questions:****5×2=10****Question No. 19 is compulsory.**

- 11) State Newton's laws of motion.
- 12) Why does the sky appear in blue colour?
- 13) State two conditions necessary for rusting of iron.

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- 14) State Avagadro's law.
- 15) Name the acid that renders aluminium passive.
- 16) Function of chloroplast.
- 17) Why is the colour of the blood red?
- 18) Name the parts of the hind brain.
- 19) Calculate the gram molar mass of the following.

Part - III**III. Answer any 4 questions: [25th question compulsory]****4×4=16**

- 20) Differentiate mass and weight.
- 21) a) State Snell's law.
b) State Rayleigh's law of scattering.
- 22) a) Define Atomicity.
b) Give any two examples for heteroatomic molecules.
- 23) a) What is respiratory quotient?
b) Write the reaction for photosynthesis.
- 24) Enumerate the function of blood.
- 25) A is a silvery white metal A combines with O_2 to form B at $800^\circ C$, the alloy of A is used in making the aircraft find A and B.

Part - IV**IV. Answer all the questions:****2×7=14**

- 26) a) Differentiate the eye defects Myopia and Hypermetropia.
b) Define dispersion of light.

(OR)

- a) Give the salient features of 'Modern atomic theory'.
b) Define Relative atomic mass.
- 27) a) Differentiate Monocot and Dicot root.
b) Draw and label the structure of oxysomes.

(OR)

- a) Explain the male reproductive system of rabbit with a labelled diagram.

SIVAKUMAR M. Sai Ram Matric HSS,
Vallam - 627809.