0092 Tenkasi District Tsi9S 12 Common Half Yearly Examination - 2024 5.6 Standard 9 Marks: 75 SCIENCE Time: 3.00 Hours Part - I 12x1=12 Τ. Choose the correct answer. Rulers, measuring tapes and metre scales are used to measure d) Length c) time b) weight a) mass In a pressure cooker, the food is cooked faster because a) Increased pressure lowers the boiling point b) Increased pressure raises the boiling point c) decreased pressure raises the boiling point d) Increased pressure lowers the melting point Heating effect of current is called a) Joule heating b) Coulomb heating c) Voltage heating d) Ampere heating 4) Which of the following converts electrical energy into mechanical energy? c) Generator a) Motor b) Battery d) Switch 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 6) If Dobereiner is related with law of triads. Then Newland is related with a) Modern Periodic law b) Hund's rule c) Law of octaves d) Paulis Exclusion prinicple 7) Sodium having atomic number 11, is ready to electron/electrons to attain the nearest noble gas electronic configuration a) By gaining one electron b) by gaining two electrons c) By losing one electron d) By losing two electrons 8) Acid turn blue litmus paper to a) green b) red c) Orange d) white Companion cells are closely associated with a) Sieve elements b) Vessel elements c) trichomes d) guard cells 10) Chlorophyll in a leaf is requied for a) Photosynthesis b) tropic movment c) transpiration d) Nastic movment 11) Which one of the following substance is not a constituent of sweat? a) Urea b) Protein c) Water d) Salt 12) The physician who discovered that scurvy can be cured by ingestion of citrus fruit is a) James Lind b) Louis pasteur c) Charles Darwin d) Issac Newton

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Part - II

IL Answer any 7 of the following questions. (Q.No. 22 is compulsory) 7x2=14 13) Match the following:

i) Density - hpg

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ii) Pascals' law - Milk
iii) pressure exerted
by a fluid - Mass/Volume
iv) Lactometer - Pressure

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3x7=21

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- 14) Define least count of any device
- 15) Define electric current and give its unit.
- 16) Differente between absorption and adsorption
- 17) Fill in the blanks:
 - i) isotope is used in the nuclear reactors
 - ii) The valency of Argon is
- 18) What are groups and periods in the modern periodic table?
- 19) NaCl is insoluble in carbon tetrachloride but soluble in water. Giver Reason

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- 20) What is nastic movment?
- 21) What is an adulterant?
- 22) Calculate the amount of charge that would flow in 2 hours through an element of an electric bulb drawing a current of 2.5 A.

Part - III

III. Answer any 7 of the following questions. (Q.No. 32 is compulsory) 7x4=28

- 23) Differentiate mass and weight.
- 24) a) State Flemings Left Hand Rule
 - b) State the advantages of ac over dc
- 25) Write the differences between elements and compounds and give an example for each
- 26) What are the limitations of Mendeleev's periodic table?
- 27) An atom x with atomic number 20 combines with atom y with atomic number8. Draw the dot structure for the formation of molecule xy
- 28) List out the differences between mitosis and meiosis (any four)
- 29) How will you differentiate the different types of transpiration?
- 30) Name the types of teeth present in an adult human being. Mention the functions of each
- 31) Write any one function of the following mineralsa) Calciumb) Sodiumc) Irond) Iodine
- 32) Density of mercury is 13600 kg m⁻³. Calculate the relative density.

Part - IV

IV. Answer in detail (answer all the questions)

33) a) Explain different types of motion

(OR)

- b) Explain with diagrams how refraction of Incident light takes place from
 - i) rarer to denser medium
 - ii) denser to rarer medium
 - iii) Normal to the surface separating the two media
- 34) a) Explain the postulates of Bohr's atomic model

(OR)

- b) Write any five uses of Salt
- 35) a) Give an account on phylum Arthropoda

(OR)

 b) Suggest the immunization schedule for a new born baby till 12 monthsof age: Why it is necessary to follow the schedule.

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