

Tsi10S

Tenkasi District Common Examinations
Second Mid Term Test - November 2022

**Standard - 10****SCIENCE**

Time: 1.30 hrs

Marks: 50

8x1=8**I. Choose the correct answer.**

- When a sound wave travels through air the air particles
 - Vibrate along the direction of the wave motion'
 - Vibrate but not in any fixed direction
 - Vibrate perpendicular to the direction of the wave motion
 - donot Vibrate
- Unit of radioactivity is _____
 - Roentgen
 - Curie
 - becqueral
 - All the above
- which of the following represents a precipiktion reaction.
 - $A_{(s)} + B_{(s)} \rightarrow C_{(s)} + D_{(s)}$
 - $A_{(s)} + B_{(aq)} \rightarrow C_{(aq)} + D_{(d)}$
 - $A_{(aq)} + B_{(aq)} \rightarrow C_{(s)} + D_{(aq)}$
 - $A_{(aq)} + B_{(s)} \rightarrow C_{(aq)} + D_{(d)}$
- Rectified spirit is an aqueous solution which contains about _____ of ethanal
 - 95.5%
 - 75.5%
 - 55.5%
 - 45.5%
- The term Ehtnobotany was coined by
 - Khorana
 - J.W.Harsbberger
 - Ronald Ross
 - Hugo de Vries
- Pusa Komal is a disease resistant variety _____
 - suga cane
 - rice
 - cow pea
 - maize
- World No Tobacco Day is observed on
 - May 31
 - June 6
 - April 22
 - October 2
- _____ Act product women of child from sexual offences.
 - IUPAC
 - POCSO
 - NTP
 - HIV

Answer any six questions**6x2=12****Question No.14 compulsory**

- Match the following
 - Infrasonic - a) Compressing
 - Echo - b) 22KHz
 - Ultrasoinc - c) 10Hz
 - High pressure region - Ultrasonography
- Fill in the blanks
 - Abbreviation of ICRP _____
 - Anemia can be curred by _____ isotope .
- Different Soap and Detergents.
- Define Ethnobotany and write its importance?
- Name the types of stem cells.
- If the pH of a solution is 4.5, what is its pOH?
- Mention the diseases caused by tobacco smoke.
- What are the contributing factors for oberity.

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Answer any four questions**4x4=16****Question No.20 compulsory**

17. a) Why does sound travel faster on a rainy day than on a dry day?
 b) Mention two cases in which there is no Doppler effect is sound?
 i) The SI unit of magnetic field induction is
 ii) An electric motor converts.
18. How does pH play an important role in everyday life?
19. Classify the following compounds based on the pattern of carbon chain and give their structural formula.
 i) Propane ii) Benzene iii) Cyclobutane iv) Furan
20. Expand the following abbreviations
 i) HIV
 ii) BMI
 iii) AIDS
 iv) CHD
21. If A is a radio active element which emits an α particle and produces ${}_{104}Rf^{259}$. Write the atomic number and mass number of the element A.
22. State the applications of DNA finger printing technique.

Answer all the questions**2x7=14**

23. What is an echo?
 a) State two conditions necessary for hearing an echo.
 b) What are the medical applications of echo?
 c) How can you calculate the speed of sound using echo?
 (OR)
 a) Differentiate reversible and irreversible reactions.
 b) Give two medicinal use of ethanal?
24. a) Discuss the importance of biotechnology in the field of medicine.
 b) Define genetic engineering?
 (OR)
 a) Suggest measures to overcome the problems of an alcoholic.
 b) Give two reasons for HIV transmission.

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