

Ranipet District

COMMON THIRD REVISION TEST - 2023

Standard X

Reg.No. 110224

SCIENCE

Time : 3.00 hrs

Part - I

Marks : 75
12 x 1 = 12

I. Choose the correct answer:

- To project the rockets which of the following principles is/are required?
 - Newton's third law of motion
 - Newton's law of gravitation
 - Law of conservation of linear momentum
 - Both (a) and (c)
- Kilowatt hour is the unit of _____.
 - resistivity
 - conductivity
 - electrical power
 - electrical energy
- _____ element emits its radiation spontaneously.
 - Ni
 - Pd
 - Pt
 - U
- Identify the non-aqueous solution.
 - Sodium chloride in water
 - Glucose in water
 - Copper sulphate in water
 - Sulphur in carbon disulphide
- Rectified spirit is an aqueous solution which contains about _____ of ethanol.
 - 95.5 %
 - 75.5 %
 - 45.5 %
 - 55.5 %
- Which is formed during anaerobic respiration?
 - Carbohydrate
 - Ethyl Alcohol
 - Acetyl CoA
 - byruvate
- The concept of blood group is derived by _____.
 - Wiener
 - Karl Landsteiner
 - William Harvey
 - His
- The large elongated cells that provide nutrition to developing sperms are _____.
 - Primary germ cells
 - Sertoli cells
 - Leydig cells
 - Spermatogonia
- World 'No Tobacco Day' is observed on _____.
 - June 6
 - May 31
 - April 22
 - October 2
- Identify the exocrine gland.
 - Pituitary gland
 - Adrenal gland
 - Salivary gland
 - Thyroid gland
- _____ is found abundantly in liquid endosperm of coconut.
 - Auxin
 - Cytokinin
 - Gibberellins
 - Ethylene
- Himgiri developed by hybridization and selection for disease resistance against rust pathogens is a variety of _____.
 - chilli
 - maize
 - wheat
 - sugarcane

II. Answer any 7 questions. (Q.No.22 is compulsory)

7 x 2 = 14

- Classify the types of force based on their application.
- What are the causes of 'Myopia'?
- What is the audible range of frequency?
 - What is the minimum distance needed for an Echo?
- Write a reaction which is used for the identification of alcohol?
- Write the functional group for the following class of compounds.

Compounds	Functional group
a) Alcohol	-
b) Aldehyde.	-
c) Ketone	-
d) Carboxylic Acid	-

(2)

X Science

- What is respiratory quotient?
- Distinguish between somatic gene therapy and germ line gene therapy
- Identify the parts A, B, C, D in the given figure.



- How are e-wastes generated?
- A charge of 10 coulomb flows through a bulb in 5 second. What is the current through the bulb?

Part - III

7 x 4 = 28

- Answer any 7 questions. (Q.No.32 is compulsory)
- Describe rocket propulsion.
- Draw a ray diagram to show the image formed by a convex lens when the object is placed between F and 2F.
 - State Boyle's law.
- Write any four features of natural and artificial radioactivity.
- Define Atomicity.
 - Calculate the molecular mass of CO_2 .
- What happens when the salt $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$ is heated? Write the equation.
- What is photosynthesis and where does it occur in a cell?
 - Differentiate Aerobic and Anaerobic respiration.
- Draw and Explain the external structure of human heart.
- Discuss the importance of biotechnology in the field of medicine.
- How do rainwater harvesting structures recharge ground water?
- A solution was prepared by dissolving 25 g of sugar in 100 g of water. Calculate the Mass percentage of solute.
 - Calculate the pH of 0.01 M HNO_3 ?

Part - IV

3 x 7 = 21

- Answer all the questions.
 - Draw diagram wherever necessary.
- State Newton's laws of motion. (OR)
 - Compare the properties of alpha, beta and gamma radiations.
- Define combination reaction.
 - Give an example for combination reaction.
 - Differentiate reversible and irreversible reaction.
- Give the silent features of "Modern atomic theory."
 - Write any two applications of "Avogadro's Law".
- What is transpiration?
 - Give importance of transpiration.
- Suggest measures to overcome the problems of an alcoholic.
 - What are the contributing factors for obesity?

-E.VIKRAM (M.Sc.,B.Ed(Mathematics))

Now I am Working in Orange International Matriculation Hr. Sec. School.,Aagaram Village ,Vinnamangalam Post, Aagaram Village ,Vinnamangalam Post ,Arni - 632316.,Tiruvannamalai district.

& Sri Rajalakshmi Tuition Centre.,Arni -632301.,Tiruvannamalai district.

Kindly send me your questions and answerkeys to us : Padasalai.Net@gmail.com