Tirunelvell District Common Second Revision Test - 2025

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Standard 10

Time:	3.00 Hours SCIENCE PART-I		Marks: 75			
i) A	nswer all the questions		12×1=12			
ii) C	hoose the most appropriate answer		There is a second			
1)	The scattered light in Raman scattering	g contains	lines			
	a) Stoke's b) anti stoke's	c) Rayleigh's	d) all the above			
. 2)	If the atoms or molecules of a gas do r	not interact with eac	h other, then the			
	gas is said to be	La La Caración de Constitución	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	a) a real gas (b) an ideal gas	c) a noble gas	d) a rare gas			
3)						
- 41	a) Lead oxide b) Iron In a combustion reaction,	c) Lead	d) Aluminium			
7)	a) Oxygen gas is released	h) nitrogon gas is -				
	c) Oxygen gas is utilised	b) nitrogen gas is rd) nitrogen gas is u				
5)	Atomicity of phosphorous is	d) The ogen gas is t	iulised			
	a) 2 b) 3	c) 4	d) 6			
6)	$H_{2(g)} + Cl_{2(g)} \rightarrow 2HCl_{(g)}$ is a		4).0			
	a) Decomposition reaction	b) combination rea	ction			
	c) Single displacement reaction	d) Double displacer				
7)	The brain of leech lies above the		, and a care of the			
	a) Mouth b) Buccal cavity	c) Pharynx	d) crop			
8)	The part of human brain which acts as	relay centre is				
	a) pons b) thalamus	c) Cerebrum	d) Cerebellum			
9)	The formation of nucleolus in the nucleon	eus is by				
- 1. V	a) secondary constriction	b) Primary constrict	tion			
40)	c)telomere	d) locus	7			
10)	condition of zygote is		the zygote. The			
	a) haploid b) diploid	c) triploid	d) tetraploid			
11)	The organism considered to be the fos	sil bird is				
	a) Ginko biloba	b) Archaeopterix				
	c) Paleozoic ferm	d) Indian Gondwana	3			
12)	Cancer of epithelial cells is called	••••				
	a) Leukemia b) Sarcoma	c) Carcinoma	d) Lymphoma			
PART-II						
nswer	any 7 questions. Q.No. 22 is compul-	sory.	7×2=14			
) Why are traffic signals are used in red colour?					
14)	Give the difference between the light and sound waves					
15)	Match the following					
	a) Electric current - Volt					

- b) Potential difference Ohm meter
- c) Specific resistance Watt
- d) Electric power amphere
- 16) If the pH value of a solution is zero, then what will be the natureof the solution?
- 17) Define reflex arc
- 18) How are e-wastes generated?
- 19) Write the characteristics of insect pollinated flowers?

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- 20) What are the contributing factors for obesity?
- 21) What is scratch?
- 22) Calculate the velocity of a moving body of mass 5kg whose linear momentum is 2kg ms⁻¹.

PART-III

Answer any 7 questions. Q.No. 32 is compulsory.

7×4=28

- 23) Describe rocket propulsion?
- 24) Differentiate the eye defects: Myopia and Hypermetropia
- 25) Derive the relationship between relative molecular mass and vapour density.
- 26) Explain the types of double displacement reactions with examples
- 27) (i) Why are thyroid harmones referred as personality harmone?
 - (ii) Transpiration is a necessary evil in plants. Explain
- 28) What is photosynthesis and where in a cell does it occur? Write the equation for it?
- 29) How do you differentiate homologous organs from analogous organs?
- 30) What are the effects of hybrid vigour in animals?
- 31) (i) How is cancer cell different from a normal cells?
 - (ii) Why fossil fuels are to be conserved?
- 32) (i) Can nickel spatula be used to stir copper sulphate solution? Justify your answer
 - (ii) Name the simplest Ketone and give its structural formula

PART-IV

Answer all the questions. Draw diagrams wherever necessary

3×7=21

- 33) a) i) What is the co-efficient of cubical expansion?
 - ii) Explain why the ceilings of concert halls are curved?
 - iii) Differentiate Nuclear fission and Nuclear fusion

(OR)

- b) i) What is meant by electric current?
 - ii) Name and define its unit
- iii) Which instrument is used to measure the electric current? How should it be connected in a circuit?
- 34) a) i) How many grams are there in the following substances?
 - a) 2 moles of hydrogen molecule
 - b) 3 moles of chlorine molecule
 - c) 5 moles of sulphur molecule
 - d) 4 moles of phosphorous molecule
 - ii) In what way hygroscopic substances differ from deliquescent substances?

(OR)

- b) i) What is a chemical equilibrium? What are its characteristics?
 - ii) 3.5 litres of ethanol is present in 15 litres of aqueous solution of ethanol. Calculate volume percent of ethanol solution
- 35) a) i) How does locomotion takes place in leech?
 - ii) How are arteries and veins structurally different from one another?

(OR)

b) How is the structure of DNA organised? What is the biological significance of DNA?