HSL

HALF YEARLY EXAMINATION - 2025

9 -	STD	0.00	SC	TENCE				
Time	e: 2.30 Hrs					1	M	arks : 75
ı	Choose the b	est ans	wer.	3	280	9	12 X	(1 = 12
1.	The size of an a) decreases c) remains the			b) increas	es		ses	
2.	Electroplating a) heating effe	ect b)	chemica	l effect c) f				effect
3.	When a beam a) reflected		b) only	deviated	c) dev	iated an	d dispers	sed
4.	has that) pure substa	ne same ance	propertion b) mixt	es througho ure	out the san c) coll	nple. oid	d) suspe	nsion
5.	,	b) 4		c) 3	d) 5		P 2	
6.	The hydrated a) red	salt of co b) white		phate has . c) blue	colou	ır.	* * = 1	
7.	Water vascula a) hydra					aris .		2 %
8.	The chemical a) CO ₂ is reduble water is reduble b) water is reduble both CO ₂ a	ced and duced an	water is d CO ₂ is	oxidized c)				dized
9.	Which of the fa) ovary	ollowing	is not a	part of fem	ale reprod d) fallo	uctive sy pian tub	rstem e	
10.	The physician fruit in a) James Lind	who disc	covered t	hat scurvy			gestion o	
11.	Diptheria affecta) Lungs	cts the		c) blood	# 11.8	r		*
12.	Which key sho a) f ₁	uld be p b) tab			e show? d) f ₂			g= 1
II	Answer any	seven qu	uestion.	Q.no:22 is	compuls	ory.	7 X	2 = 14
13.	What do you l	know abo	out the p	itch of scre	w gauge ?			
14.	Fill in the bla	nks:					it.	* #1
	i) The SI unit of the sill in the					* 19		
	State Pascal's				i.			
16.	You have just pure substance	won a me or imp	nedal ma ure subs	de of 22 ca tance ?	rat gold. h	ave you HSL 9 &	just pro அறிவியல்	cured a page - 1

- 17. Identify the compounds as ionic covalent coordinate based on the given characteristics.
 - a) Soluble in non polar solvents b) Undergoes faster /instantaneous reaction
 - c) Non conductors of electricity d) Solid at room temperature
- 18. In which stage of mitosis the chromosomes align in an equatorial plate? How?
- Differentiate phototropism from photonasty. 19.
- 20. What is micturition?
- Name the chronic diseases associated with respiratory system 21.
- The speed of light in water is 2.25 X 108 mS⁻¹. if the speed light in vacuum is 22. 3 X 108 mS⁻¹, calculate the refractive index of water

III. Answer any seven question: q.no:32 is compulsory

 $7 \times 4 = 28$

- 23. Explain different types of motion (any 5).
- 24. a) Say whether it is true or false.
 - i) Ammeter is connected in parallel in any electric circuit.
 - ii) Current can produce magnetic field.
 - b) Match the following.
 - i) Length
- Kelvin

- ii) Mass
- meter
- iii) Time
- kilogram
- iii) Temperature __-
- 25. i) On what factors does the electrostatic force between two charges depend? ii) Name any two applicances work under the principle of heating effect of current.
- 26. What are the limitation of Mendeleevs periodic table
- 27. Write a note on different types of bonds.
- 28. Write any five uses of salts.
- Differentiate between tropic and nastic movement. 29.
- Explain the role of food control agencies in India any (four).
- 31. i) What is libre office impress? ii) What is slide?
- 32. Find the oxidation number of the element in the following compounds
- a) C in CO,
- b) Mn in MnSO

c) N in HNO₃

IV. Answer all the questions.

 $3 \times 7 = 21$

- a) Derive the equations of motion by graphical method. (OR)
 - b) i) State the advantages of AC over DC.
 - ii) Explain two types of transformers.
- 34. a) i) Write the differences between elements and compounds and give an example for each.
 - ii) Explain Tyndall and Brownian movement with suitable diagram. (OR)
 - b) i) Sulphuric acid is called king of chemicals. Why it is called so? Any (5)
 - ii) Define aqua regia.
- 35. a) i) Give an account on phylum annelida.
 - ii) Differentiate between flat worms and round worms. (OR)
 - b) Suggest the immunization schedule for a newborn baby till 12 months of age .why it is necessary to follow the schedule?

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