Tsi1	05		Tenkasi Dist			
_		First R	evision Examinatio	n, January - 2024		
31-01-2024 Standard 10						
		· · · · · · · · · · · · · · · · · · ·	Standard		Marks: 75	
11111	e: 3.	00 Hours	SCIENC Part - I		Pidrk5. 75	
I.	Ans	wer all the questic				
	[Choose the most suitable answer and write the code with corresponding					
	ansv				12x1=12	
	1)	One kilogram force				
		/		c) 98×10 ⁴ dyne	d) 980 dyne	
	² 2)	The SI unit of elec			D 1	
	- 1	a) joule		•	d) ohm meter	
	3)	An isotope of		i contract of the contract of	d) Inding-131	
	4)	•	•	c) Cobalt-60	d) Iodine-131	
• .	4)	The gram molecula			d) 17 g	
	ΕV		b) 18 g	ant temperature the		
	رد	in liquids	increased at consta	ant temperature the	Solubliney of guses	
			b) increases	c) decreases	d) no reaction	
	6)			methanol is called _		
	,	a) rectified spirit		b) absolute alcoh		
	c) wash			d) methylated sp	d) methylated spirit	
	7)			eristic feature of		
		a) root	b) stem	c) leaves	d) flower	
,	8)	Buring transpiration	on there is loss of _	CONTRACTOR		
 a) Carbon di oxide b) oxygen c) water d) none of the 9) is an example of vegetative reproduction may take place t 						
	9)	bulbils	iple of vegetative	reproduction may t	ake place through	
			h) Strawbreev	c) Sweet Potato	d) Agaye	
	10)	We can cut the DN			d) Aguve	
	10)	a) scissors	J. Wiem and merp of	b) restriction end	lonucleases	
		c) knife		d) RNB ase		
	11)	The world largest	wind turbine is situ	•		
,		a) California	b) Hawaii	c) India	d) Africa	
	12)	Which is used to b	uild scripts?			
		a) Script area	b) Block palette	c) Stage	d) Sprite	
	· t					
Part - II						
П.		Inswer any seven questions. Q.No. 22 is compulsory. 7x2=14				
	,	Distinguish between	_	ai gas.		
	14)	Match the following	матсп tne rollowing: Column - I Column - II			
				ressions		
		1) Infrasonic	- Comp - 22 Kh:			
		2) Echo3) Ultrasonic	- 10 hz	-		
		•		onography		
	151	4) High Pressure Region - Ultrasonography5) What is rust? Give the equation for formula of rust.				
	16) Why does the reaction rate of a reaction increase on raising the temperatu					
	17) How is diastema formed in rabbit?					
	,	Dofine reflex arc	A THICK III TUDDIC			

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- 19) State whether true or false if false write the correct statement:
 - Estrogen is secreted by corpus luteum.
 - ii) Gibberellins cause parthenocarphy in tomato.
- 20) Draw the structure of sperm and label its parts.
- 21) Expand the following abbreviatiations:
 - (i) AIDS
- (ii) CHD
- 22) A beam of light converges at a point P. Now a lens is placed in the path of the conversent beam 12 cm from P. At what point does the beam convers if the lens is a convex lens of focal length 20 cm.

Part - III

III. Answer any seven questions. Q.No. 32 is compulsory.

7x4 = 28

- 23) i) State Newton's Second Law.
 - ii) State Rayleigh's Law of Scattering.
- 24) i) What is co-efficient of real expansion.
 - ii) What happens to the resistance, as the conductor is made thicker?
- 25) Differentiate Nulcear fission and Nuclear fusion.
- 26) i) Define volume percentage.
 - ii) What is called TFM? Which value of TFM refers to good bathing soap?
- 27) i) Draw the structure of chloroplast.
 - ii) What is the importance of valves in the heart?
- 28) Classify neurons based on its structure.
- 29) i) Write the characteristics of insect pollinated flowers.
 - ii) Why is Archaeopteryx considered to be a connecting link?
- 30) i) Name three improved characteristics of wheat that helped india to achieve high productivity.
 - ii) What are the contribution factors of obesity?
- 31) What are the consequences of deforestation?
- 32) Calculate the % of each element in calcium carbonate.

[Atomic mass C-12, O-16, Ca-40]

Sivakumberm, Soi Ram mutoic HSS Vallam-622809

Part - IV

IV. Answer all the questions.

- Differentiate the eye defects. Myopia and Hypermeteropia. 33) i)
 - ii) State Joule's Law of heating.

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(OR)

- Write the factors that affect the speed of sound in gases. i)
- ii) Give any two uses of radio isotopes in the field of agriculture?
- 34) i) Derive the relationship between relative molecular mass and vapour density
 - ii) State two conditions necessary for rusting of iron.

(OR)

- Differentiate reversible and irreversible reactions.
- ii) Arrive at, systematically the IUPAC name of the compound CH₃-CH₂-CH₂-OH
- 35) i) Explain male reproductive system of rabbit with a labelled diagram.
 - ii) Write the physiological effects of gibberellins.

(OR)

- i) Enumerate the importance of forest.
- ii) How is cancer cell differs from a normal cell?