## ARIYALUR DISTRICT

CLASS: 10

Reg:No: 1 0 3 0 1

## SECOND REVISION EXAMINATION - 2025

SCIENCE

**Marks**: 75

Time: 3.00 Hrs.

							A COLOR	i swii er da k
Inst	tructions: (1	Check the	question paper for	r fairne	ss of printing. If the			
			upervisor immedi				same charlends in a	ile is the comment
AL.	(2)	Use Black	or Blue ink to writ	e and t	underline and pend	il to	draw diagrams	The second of the second
NOI	e: Inis ques	stion paper co	ntains four parts					
NI-4		251 AL		PART	-1			
NOI	e: (i) Answe			a second				12x1=12
	and th	e correspon	ding answer		he given four alterr			
1.	A convex lens	s forms a real	, diminished point si	ized ima	age at fócus. Then th	ne po	sition of the object	is at
	a) focus		b) infinity	cY	at 2 f	d)	between f and 2f	
2.	Temperature i	s the average	of the	e molec	ules of a substance	A Comment		
	a) difference			b)	sum of P.E and K.E	25,		*
4 19	c) difference	e in T.E and P.	E. Wywingman	d)	difference in K.E an	d T.E	🖺 de sarrado e jaran	grafosia (f
3.	The potential	difference rec	luired to pass a curr	ent 0.2.	A in a wire of resistar	nce 2	20 ohm is	
	a) 100 V		b) 4 V	c)	0.1 V	d)	40 V	1. A. 1. A. 1.
4.			lso known as	539				
	a) Induced r			b)	spontaneous radioa	ctivi	ty and a many	Ann gon
	c) artificial r			d)	a&c		The third to be a large	distribution of the
5.			triatomic molecule?		in a second	ž 4.		
	a) Glucose		b) helium	c)	carbon di oxide	d)	carbon di oxide	10-88 - 36 (SSZ)
6.	Which of the	ollowing is the	e universal solvent?					1. 12-16.
	a) Acetone		b) Benzene			d)	Alcohol	- FIFE
7.		9	npound. It turns to gr	een wh	en it reacts with alcoh	iol. F	lence it is used for ic	lentification
	of alcohols. '>	(' is	V . New in	1.				riot :
Ċ.,	a) K <sub>2</sub> Cr <sub>2</sub> O7		b) FeSO <sub>4</sub>	c)	KOH	d)	NaOH	Angelia de Santo
8.		of blood group	is derived by	10 1 mol 1	- 24			
9	a) Wiener	4.	b) Karl Lansteiner	, c)	William Harvey	d)	His .	
9.	Vomiting cen		in grans	The sec				
	a) medulla	the same of the sa	b) Stomach	c)	Cerebrum	d)	Hypothalamus	
10.	Syngamy res	ults in the forn		4	16	Mar.		อนาจเมื่อนได้
	a) Zoospore		b) Conidia		Zygote			
11.	Himgiri develop	ed by hybridis			se resistance against	rușt	pathogens is a varie	y of
	a) Chilli		b) maize :	c)	sugarcane	d)	wheat	
12.	Global warmi				and suppressions, who			
	a) A raise o	f level in ocea	ins - fac	b)	melting of glaciers		gament felt i Hall garge	and it was
	c) Sinking o	fislands	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	d)	all of these		A STATE OF THE STATE OF	
	THE SHAP SHOP I		ight of the second		-II 42 47 47 41		TAR MARSON TO	10.70
Not	te: Answera	ny seven que	estions. Question	numbe	r 22 is compulsory.			$7 \times 2 = 14$
			ased on their applic				in the state of	
14.	State the law	of volume			radio tropico	e Pira	and the exception	
15.	Explain why, t	he ceilings of	concert halls are cu	irved.				
	True or false.	If false give th	e correct statement	Larger	Sanda et avid dans		te Decidence	grand and
	a) In a solut	ion the compo	onent which is prese	ent in le	sser amount is calle	d so	lvent.	
	b) Sodium o	hloride dissol	ved in water forms a	non –	aqueous solution			
17.	The molecula	r formula of a	n alcohol is C.HC	. The k	ocant number of its	-OH	group is 2. Draw it	s structural
	formula and g						100	
18	What are the			(3)				
ALC: 1								10 / Scien

2

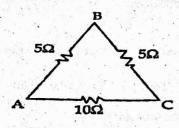
19. What is respiratory quotient?

20. Draw the diagram and label the parts



21. Fill in the blanks

- a) The forelimbs of bat and human are examples of org
- b) A protein rich wheat variety is Manager
- 22. Calculate the effective resistance of the given circuit across terminals AC



PART-II

Note: (i) Answer any seven questions. Question number 32 is compulsory.

7x4=28

- 23. a) State newton's third law
  - b) While catching a cricket ball the fielder lowers his hands backwards. Why?
- 24. a) State Ohm's law
  - b) Name three animals which can hear ultrasonic vibrations
- 25. Differentiate nuclear fission and nuclear fusion
- 26. State the applications of Avogadro's law
- 27. Differentiate soaps and detergents
- 28. Match columns I, II and III correctly

Organs	Membranous Convering	Location L. C. L.
Brain	Pleura	Abdominal cavity
Kindney	capsule	mediastinum
Heart '	Meninges	enclosed in thoracic cavity
Lungs	Pericardium	Cranial cavity

- 29. Classify neurons based on its structure.
- 30. Explain the structure of a chromosome
- 31. Differentiate between Type-1 and Type-2 diabetes mellitus
- 32. What is the pH of 1.0 × 10-5 molar solution of KOH?

## PART - IV

Note: (i) Answer all the questions. Draw diagrams wherever necessary

3x7=2

33. a) Explain the rules for obtaining images formed by a convex lens with the help of ray diagram.

(01

- b) What is a nuclear reactor? Explain its essential parts with their functions. (Need not draw the diagram)
- 34. a) i. Define solubility
  - ii. Write notes on various factors affecting solubility.

(or)

- b) What is called homologous series? Give its characteristics
- 35. a) Why are leucocytes classified as granulocytes and agranulocytes? Name each cell and mention its functions.

(or

b) With a neat labelled diagram explain techniques involved in gene cloning

10 / Science