SECOND REVISION EXAMINATION - 2023

STD - X	SCIF	NCE	MARKS: 7
TIME: 3.00 Hrs	SUIL	.NOL	
	SECTI	ON - A	
I. Choose the correct answer :			12 x 1 = 12
1. Magnification of a convex lens	is		
a) Positive b) Ne		c) either positive	or negative d) zero
2 is used in thermometer			
a) lead b) silver	c) m	ercury d)	iron
3. SI unit of resistance is			
a) mho b) joule	c) of	nm 📒 d) ohm m	neter
4. Kamini reactor is located at			
a) Kalpakkam b) Ko	odankulam	c) Mumbai	d) Rajasthan
5. Chemical formula of rust is			
a) FeO. x H ₂ O b) Fe	O, x H,O	c) Fe ₂ O ₃ x H ₂ O	d) FeO
6. Which of the following is the un	niversal solven	t?	
a) Acetone b) bei			
7. Hydrocarbons in which carbon			
a) alkynes b) alk			
8. Powdered CaCO ₃ reacts more			
a) large surface area b) hig	h pressure	c) high concentra	tion d) high temperature
9. Mammals are animals.			Section 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a) Cold blooded b) wa		c) poikilothermic	d) All the above
Okasaki fragments are joined to		TO BE A	
a) Helicase b) DNA polyn		c) RNA primer	d) DNA ligase
11. Cancer is derived from latin wo			
a) Scorpion b) Cra		c) Mosquito	d) Protozoa
12. Which is used to edit programs			
a) Inkscape b) Scr			d) Spuite
	SECTIO		
II. Answer any seven Questions. (ompulsory	$7 \times 2 = 14$
Why are traffic signals red in co	lour?		
14. Why is tungsten metal used in b	oulbs, but not i	n fuse wires?	
15. State whether the following state	ements are tru	ie or false, if false e	xplain why?
a) According to Charle's law, at	constant pres	sure, the temperatu	re is inversely proportional
to volume.	4-34		
b) Waves created by earth qual-	ke are Infraso	nic.	
16. What is stellar energy?	The Carte of		
17. The aquatic animals live more in	and mainn	Mby/2	
18. Match the following:	cold region.	vvily :	
a) Ethanol	Disinfectant		
b) Formaldehyde	Stain remove		
	Anaesthetic		
d) Diethyl ether	Antiseptic		0 - SCIENCE - PAGE 1

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- Differentiate Inbreeding and outbreeding.
- 20. Draw a neat labelled diagram of neuron.
- 21. Why did Mendal select pea plant for his experiments?
- A force of 5N applied on a body produces and acceleration 5 cms-2. Calculate the mass of the body.

SECTION - C

Answer any seven Questions. Q.No. 32 is compulsory

 $7 \times 4 = 28$

- 23. State Newton's laws of motion.
- 24. a) Define magnification of light.
 - b) Distinguish between ideal gas and real gas.
- 25. Compare the properties of alpha, beta and gamma radiation.
- 26, a) State Modern periodic law.
 - b) What happens when MgSO₄.7 H₂O is heated? Write the appropriate equation.
- 27. a) Write any two applications of "Avagadro's law"?
 - b) Write any 2 uses of ethanol.
- 28. Give the balanced chemical equation of the following reactions.
 - i) Neutralization of NaOH with ethanoic acid.
 - ii) Evaluation of CO2 by the action of ethanoic acid with NaHCO3
 - iii) Oxidation of ethanol by acidified potassium dichromate.
 - iv) Combustion of ethanol.
- 29. List out the parasitic adaptations in leech.
- 30. a) Write the difference between endocrine and exocrine glands.
 - b) What is colostrum? How is milk production hormonally regulated?
- 31. How will you prevent soil erosion?
- 32. Calculate the number of moles in i) 27g of Al ii) 1.51 x 10²³ molecules of NH4Cl.

SECTION - D

Answer all the Questions in detail.

 $3 \times 7 = 21$

- 33. a) (i) List any five properties of light (5)
 - (ii) State Boyle's law. (2)
- (OR)
- b) (i) Mention two cases in which there is no Dopples effect in sound? (2)
 - (ii) Why does sound travel faster on a rainy day than on a dry day? (2)
 - (iii) X-rays should not be taken often. Give the reason. (3)
- 34. a) (i) Which is the chief ore of Aluminium? (1)
 - (ii) What is rust? Give the equation for formation of rust? (2)
 - (iii) State two condtions necessary for rusting of iron. (2)

(OR)

- b) How does pH play an important role in everyday life?
- 35. a) Illustrate the structure and functions of brain. (7)

(OR)

- b) (i) What do you understand by the term phenotype and genotype? (2)
 - (ii) What are the effects of hybrid vigour in animals. (5)

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