### COMMON FIRST REVISION TEST - 2023

	Standard X	Reg.No.
	SCIENCE	Marks: 75
Time: 3.00 hours	Part - I	$12 \times 1 = 12$
I Choose the correct answer		
1. Impulse is equals to		- d'4i
a) rate of change of momentum		
c) change of momentum	d) rate of change	or mass
2. Kilowatt hour is a unit of		gy d) electrical power
a) resistivity b) conduct		gy a) electrical power
3. The frequency which is audible		4\ 10000 KHz
		d) 10000 KHz
4. Gamma radiations are dangerou		
a) it affects eyes and bones	b) It affect tissue	
c) it produce genetic disorder		ormous amount of heat
5. Which of the following have iner		
a) He b) Ne	c) Ar	d) Kr
6. The secondary suffix used in IUF		
	d c) –al	d) -one
7. Which of the following is hydrose		
a) ferric chloride	b) copper sulpha	
c) silica gel	d) none of the ab	ove
8. Which of the following are used		
a) carboxylic acid b) ethers		d) aldehydes
9. Which one of the following horm	ones is naturally not found	d in plants?
a) 2,4-D b) GA <sub>3</sub>	c) Gibberellin	d) IAA
10. The 'Use and disuse Theory' wa	s proposed by	
a) Charles Darwin	b) Ernst Haecke	
c) Jean Baptiste Lamarck	d) Gregor Mende	
1. Polyphapia is a condition seen in	1	
a) obesity	b) diabetes melli	itus
c) diabetes insipidus	d) AIDS	
2. Global warming will cause		
a) raise in level of oceans.	b) melting of gla	ciers
c) sinking of islands	d) all of these	
	Part - II	
II. Answer any 7 questions: (Q.No		7
3. State Newton's second law.	J.LL 13 COMPUISORY)	$7 \times 2 = 14$
4. Define Dispersion of light.		
5. Distinguish between ideal gas ar	id real gas.	

Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com

- 16. Define Atomicity.
- 17. What is rust? Give the equations for formation of rust.
- 18. Why does the reaction rate of a reaction increases on raising the temperature?
- 19. Why should the light dependent reaction occur before the light independent reaction?
- 20. How are arteries and veins structurally different from one another?
- 21. Differentiate between medullated and a non-medullated nerve fibre.
- 22. If a 5 N and 15 N forces are acting opposite to one another. Find the resultant force and the direction of action of the resultant force.

### Part - III

III. Answer any 7 questions: (Q.No.32 is compulsory)

 $7 \times 4 = 28$ 

- 23. Why a spanner with a long handle is preferred to tighten screws in heavy vehicles?
- 24. Draw a ray diagram to show the image formed by a convex lens when the object is placed between f and 2f.
- 25. Write any three features of natural and artificial radioactivity.
- 26. Give an example each:

a) gas in liquid b) solid in liquid c) solid in solid

d) gas in gas

- 27. a) The aquatic animals live more in cold region. Why?
  - b) Classify the following substances into deliquescent hydroscopic, conc.sulphuric acid, copper sulphate penta hydrate, silica gel, calcium chloride and gypsum salt.
- 28. How do detergents cause water pollution? Suggest remedial measures to prevent this pollution.
- 29. Draw and label the structure of oxysomes.
- 30. What are Okazaki fragments?
- 31. What is the importance of rain water harvesting?
- 32. The hydroxide Ion concentration of a solution is 1 x 10<sup>-11</sup> M. What is the pH of the solution?

#### Part - IV

# IV. Answer all the questions:

 $3 \times 7 = 21$ 

Derive the ideal gas equation.

(OR)

- What is nuclear reactor? Explain its essential parts and their functions. b)
- Give the salient features of "Modern atomic theory" 34. a)

## (OR)

- Explain the types of double displacement reaction with example.
- With a neat labelled diagram, describe the parts of a typical angiospermic ovule. (OR)
  - How is the structure of DNA organised? What is the biological significance of DNA?