

# **COMMON FIRST REVISION TEST - 2023**

Standard X

Reg.No.:	1	-1	0	3	2	6
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## SCIENCE

Time: 3.00 hrs.	Part - I	Marks: 75
I. Choose the correct answer:	neo si U - B D - eng s	12 x 1 = 12
1. Impulse is equals to		
a) rate of change of momentum	b) rate of force a	nd time
c) Achange of momentum	d) rate of change	of mass
2. Power of a lens is -4D, then it's f	_	
a) 4 m b) -40 m		
3. The value of universal gas consta		
a) 3.81 J mol <sup>-1</sup> K <sup>-1</sup> b) 8.03 J mol		1 d) 8.31 J mol-1 K-1
4 aprons are used to protect		
a) lead oxide b) iron	A -	
5. The number of periods and group		
a) 6,16 b) 7,17		
<ol> <li>Powdered CaCO<sub>3</sub> reacts more rap</li> </ol>		
a) large surface area	b) high pressure	e la constitue de la constitue
c) high concentration	d) high temperatur	e
<ol><li>7. TFM in soaps represents</li></ol>	content in soap.	
a) mineral b) vitamin	c) fatty acid	d) carbohydrate
<ol><li>Which is formed during anaerobic</li></ol>	respiration?	a description for
a) carbohydrate b) ethyl alcoho	ol c) acid CoA	d) pyruvate
9. Which one is referred as 'Master C		is all in manual to
a) pineal gland b) pituitary gla	nd, c) thyroid gland	d) adrenal gland
10. The essential parts of a flower are	motorius machinin	ाह्य नामकी जा
a) calyx and corolla	(acb) calyx and andro	ecium
c) corolla and gynoecium	d) androecium and	gynoecium .
11. We can cut the DNA with the help	of was seed to be the seed of	off ordered and the second
a) scissors		ucleases ,
c) knife	d) RNAase	1.40.000 1 10 至。
12. 'World No Tobacco Day' is observe		W. Alax
	c) April 22	d) October 2
	Part - II	MUSE.
II. Answer any 7 questions: (Q.No.2 13. Define inertia - Give it's classification		$7 \times 2 = 14$
14. Why is tungsten metal used in hulb	on.	heller wide to
<ul><li>14. Why is tungsten metal used in bulb</li><li>15. When and where was the first nucle</li></ul>	s but not in tuse wires?	Mana took of No.
16. Give any two examples for heterodi	star reactor built?	· 4
17. What is rust? Give the equation for	the formation of most	
18. Name the simplest ketone and give	ite structural formula	•
19. Why is the teeth of rabbit is called h	eterodont?	
To Suit UT	otor odorit !	

(2) X Science

- 20. Define genetic engineering.
- 21. How are e-wastes generated?
- 22. Calculate the pH of 0.0001 M HNO<sub>3</sub>?

#### Part - III

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

 $7 \times 4 = 28$ 

- 23. Distinguish between ideal and real gas.
- 24. a) What is meant by electric current?
  - b) Name and define it's unit.
- 25. a) Define one roentgen.
  - b) Give the function of control rods in a nuclear reactor.
- 26. a) What is molar volume of a gas?
  - b) Write the different types of isotopes of oxygen and it's percentage abundance.
- 27. Define combination reaction. Give one example for an exothermic reaction.
- 28. a) Draw and label the structure of oxisomes.
  - b) What is respiratory quotient?
- 29. Enumerate the functions of blood.
- 30. Which hormone requires iodine for it's formation? What will happen if intake of iodine in our diet is low?
- 31. What are the advantages of using biogas?
- 32. A sound wave has a frequency of 200 Hz and a speed of 400 ms<sup>-1</sup> in a medium. Find the wavelength of the sound wave.

#### Part - IV

## IV. Answer all the questions:

 $3 \times 7 = 21$ 

- 33. a) i) Differentiate the eye defects myopia and hypermetropia.
  - ii) Write any two applications of concave lens.

## (OR)

- b) i) What do you understand by the term 'Ultrasonic Vibration'?
  - ii) State three uses of ultrasonic vibrations.
  - iii) Name three animals which can hear ultrasonic vibrations.
- 34. a) i) Calculate the number of water molecule present in one drop of water which weighs 0.18 g.
  - ii) Derive the relationship between relative molecular mass and vapour density.

#### (OR)

- b) How is ethanol manufactured from sugarcane? Explain.
- 35. a) With a neat labelled diagram explain the structure of neuron.

#### (OR)

b) Suggest measures to overcome the problems of an alcoholic.

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