T COMMON FIRST REVISION TEST - 2025 Standard - X

Time: 3.00 hrs

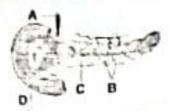
SCIENCE

Marks: 75

Answ	er all the questions:-) The unit of 'g' is ms ² . It can be in the line of th	also expressed as	12×1=12
1	a) Cms ⁻¹ b) NKg ⁻¹	c) Nm2Kg-1	d) Cm ² s ⁻²
7	Temperature is the average	of the molecules of	
2)	a) difference in K.E and P.E		
		WINDERSON IN WE	
	c) difference in T.E and P.E In 'n' resistors of equal resistance is	TOTAL TOTAL CONTO	and then in parallel
3)	then the ratio of their effective re-	sistance will be	and then in paraner
	then the ratio of their effective	c) 1:n	-0 -1
	a) 1:n². b) n²:1	c) 1:n	d) n:1
4	In the nucleus of 20 Ca ⁴⁰ there are	h) 20	
	a) 20 protons and 40 neutrons	· - DIUUUNIS ANN	20 neutrons
	c) 20 protons and 40 electrons	" Protons and 2	0 electrons
5)	Which of the following is the Halid	e oiei	
	a) Fe ₂ O ₃ b) FeO ₃	c) NaCl	d) ZnS
61	A 25% alcohol solution means	the property of the same of th	
,	a) 25ml alcohol in 100ml of water	b) 25ml alcohol in 2	5ml of water
	c) 25ml alcohol in 75ml of water	d) 75ml alcohol in 2	5ml of water
71		Jacobiol III 2	Silli di Tidici
1	Kreb's cycle takes place in	ochondrial matrix	
	a) Chloroplast b) mit c) Stomata d) inn	er mitochendial	
-	c) Stomata	od us	brane
8)	Decreased Number of WBC is called	ed us.	
	a) Anemia b) Leucocytosis	c) Luekopenia	 Thrombocytopenia
9)	Match the following		
	i) Nissil's granules - Forebra	ain	
	ii) Hypothalamus - Periph iii) Cerebellum - Cyton iv) Schwann cell - Hindbri	eral Nervous system	
	iii) Cerebellum - Cyton	The state of the s	
	iv) Schwann cell - Hindbra	nis	
	a) iii, i, iv, ii b) ii, i, iv, iii	c) iv, ii, i, iii	d) iii, iv, i, ii
10\	Avena coleoptile test was conducte	d by	۵/ ۱۱۱, ۱۷, ۱, ۱۱
10,	a) Dancin b) N Cmit	c) Paul	4) FW W
	a) Darwin b) N-Smit	C) Paal	d) F.W. Went
11)	What is true of gametes?	A Property of the Control of the Con	Section 1997
	a) They are diploid	b) They give rise to	
	c) They produce hormones	d) They are formed	from gonads.
12)	9:3:3:1 ratio is due to		
133	a) Segregation b) Crossing over	c) Independent assort	ment d) Recessiveness
	Part -	TT	7×2=14
nswe	r any seven questions of the fell	audea Question No	772-14
131	per any seven questions of the following period of a couple.	owing. Question No	. 22 is compulsory:-
	State Ohm's law.		
15)	Write the different types of isotope	s of oxygen and its p	ercentage abundance.
10)	beline Alliaigan and give an exami	nle	
17)	Define Hydrated salt.	Jie.	
18)	a) How does leech respire?		
MINI-A	b) What does CNS stand for?		
101	Why is the Sinestalal		7.1
12)	Why is the Sinoatrial node called	the pacemaker of he	art?

X SCIENCE

Draw the following diagram and mention the parts.



21) What do you understand by the term Phenotype and genotype? 22) A person with myopia can see objects placed at a distance of 4m. If he wants to see objects at a distance of 20m, What should be the focal length of the concave lens he must wear? 7×4=28

Part - III Answer any seven questions of the following. Question No. 32 is compulsory:-

23) State Newton's laws of motion? 24) a) State Boyle's law. (2)

b) Distinguish between ideal gas and real gas. (2)
25) a) State Joule's law of heating? (2) b) An alloy of nickel and chromium is used as the heating element, Why?(2)

26) a) What is rust? Give the equation for formation of rust? (2) b) State two conditions necessary for rusting of iron. (2)

Differentiate the Monocot root and Dicot root?

List out the parasitic adaptations in leech.

- 29) Out body contains a large number of cells "L" which are the longest cells in the body. "L" has long and short branch called as "M" and "N" respectively. There is a gap 'O' between two 'L' cells through which nerve impulse transfer by release of chemical substance 'P'
 - i) Name the cells 'L ii) What are M and N?

iii) What is the gap 'O'? iv) Name the chemical substance 'p'.

30) a) What is bolting? How can it be induced artificially? (2)

b) Write the difference between endocrine and exocrine gland. (2) A pure tall plant (TT) is crossed with pure dwarf plant (tt) what would be the

F, and F, generations? Explain. Calculate the number of water molecule present in one drop of water which weighs 0.18g. Part - IV

Answer all the questions. Draw diagrams wherever necessary 3×7=21 Differentiate the eye defects. Myopia and Hypermetropia? (5) What is power of accommodation of eye? [or]

What is meant by electric current?(2) b) i)

Name and define its unit. (2)
Which instrument is used to measure the electric current? How should it be connected in a circuit? (3)

Write the applications of Avogadro's Law. (4)

a) Identify the bond between H and F in HF molecule.

b) What property forms the basis of identification. c) How does the property vary in periods and in groups? (3) [or]
 In what way hygroscopic substances differ from deliquescent substances. (4)

What is aqueous and non-aqueous solution? Give an example. (3) a) Why are leucocytes classified as granulocytes and agranulocytes? Name each

b) i) Write the events involved in the sexual reproduction of a flowering plant.

a) Discuss the first event and write the types? b) Mention the advantages and the disadvantages of that event. (5) ii) Why is vegetative propagation practiced for growing some type of plants?(2)