Class:10	Register		
	XAMINATION, JAN	HAPV 2022	
Time Allowed : 3.00 Hours	SCIENCE PART - 1	[Max. Marks: 75	
Choose the correct answer.			
Answer all the questions.		12x1=1;	2
1. Impulse is equal to			
a) Rate of change of momentum	b) Rate of force	e and time	
cor Change of momentum	d) Rate of char	nge of mass	
2. The eye defect 'presbopia' can be			
a) Convex lens b) Conce	ve lens c) Convex mirr	ror d) Bifocal lenses	
3. SI unit of resistance is	-1/0	d) above seater	
a) mho b) Joule 4 is cope is used for the treatment	ent of cancer.	d) ohm meter	
a) Radia Iodine b) Radio		on d) Redio Nickel	
5. Which of the following is a triatomic			
a) Glucose b) Helilur		xide d) Hydrogen	
6. Which of the following is the univer			
a) Acetone b) Benze		d) Alcohol	
7. TFM in soaps represents			
a) mineral b) vitami		d) carbohydrate	
8. The endarch condition is the chara			
a) Root b) Stem	c) leaves	d) flower	
9. 'Heart of Heart' is called			
a) SA node b) Av nod	le c) Purkinje fib	ores d) Bundle of his	
10. Vomiting centre is located in			
a) Medulla oblongata b) Stoma		d) Hypothalamus	
11. The units form the backbone			
a) 5 carbon sugar b) Phosp	nate c) Nitrogenou	s bases d) Sugar phosphate	
12. World 'No Tobacco Day' is observe	d on		
a) May 31 b) June 6	c) April 22	d) October 2	
	Part - II		
Answer any seven questions. Q	No. 22 is compulsory.	7x	2 = 1
3. Classify the types of force based o			
4. Why does the Sky appear in blue of			
5. State Boyle's law.			
	- ulterannia ulbratione		
6. Name three animals, which can hea	r unrasonic violations.		
7. Define: Atomicity.			
 True or false. [If false given the i) At the equilibrium of a reversib will be equal. 	e reaction, the concentrac	ction of the reactants and the pro-	ducts
	ution it turns vallow Then	the solution is basic.	
	mon, it turns yenou. Then	CP/10/	Seld
What is respiratory quotient?		CF/10/	

- 20. Fill in the blanks.
 - b Normal blood pressure is
 - ii) The normal human heartbeat is about -sime per minute
- 21. Identify the parts A.B.C and D.



22. How many electrons are passing per second in an circuit in which there is a current of 5A?

PART - III

Answer any seven questions .Q.No: 32 is compulsory.

- 23. Define inertia. Give its classification.
 - 24 Differentiate convex lens and concave lens.
- 125 Differentiate soaps and detergents.
 - 28. Why is the sinoatrial node called the pacemaker of heart?
- 27. (i) What is bolting? How can it be induced artificially?
 - (ii) Why are thyroid hormones refered as personality hormone?
- 28. (i) What are allosomes?
 - (ii) What are Okazaki fragments?
- 29. How can you determine the age of the fossils?
- 30. How is a cancer cell different from normal cell?
- 31. Enumerate the importance of forest.
- 32. What is the PH of 1.0x10-5 molar solution of KOH?

PART-IV

Answer all the questions in detail.

- 33. a) (i) Derive the ideal gas equation.
 - (ii) Distinguish between ideal gas and real gas.

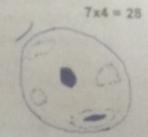
(OR)

- b) What is meant by reflection of sound? Explain:
 - i) Reflection at the boundary of a raver medium.
 - ii) Reflection at the boundary of a denser medium.
 - iii) Reflection at curved surfaces.
- In what way hygroscopic substances differ from deliquescent substances.
 - b) Classify the following substances into deliquescent, hydroscopic.
 - (i) Conc. suphuric sicid

- (ii) Silica gel
- (iii) Copper sulphate penta hydrate (iv) Calcium chloride

- (v) Gypsum salt
- α, β
- (OR)
- a) What is a chemical equilibrium? What are its characteristics?
- b) Differentiate reversible and Irreversible reactions.
- 35. a) i) How does the light depentent reaction differ from the light independent reaction? What are the end products and reactants in each? Where does each reaction occur within the chloroplast?

- a) With a neat labelled diagram describe the parts of a typical angiosperimic ovule
- b) Define triple fusion.



3×7=21