Class: 9

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## COMMON HALFYEARLY EXAMINATION - 2022 - 23

Tii	ne Allowed: 3.00 Hours] SCII	EN(	CE	9		in the second se			
ĺ	Choose the correct answer.		12		Max.	Marks: 75			
1.	Which among the following is not a device to measure mass?								
10	a) spring balance b) Beam balance	casui o)	physical balance		P. 1. 1. 1.				
2.	The size of an air bubble rising up in water	C)	physical balanc	ce a)	Digital bala	nce			
	a) decreases b) increases	. c)	romoine come	٠,		North Common to			
3,	Resistance of a wire depends on,	C)	remains same	a) may	increase or	decrease			
	a) Temperature b) Geometry	c)	nature of materi	ol d)	Λ t1 41 1				
4.	We can create enlarged, Virtual images with	0)	nature of materi	ai u)	All the above	/e			
	a) Concave mirror b) Convex mirror	c)	Plane mirror	d) Non	a af than				
5.	When we mix a drop of ink in water we get a		Tione minor	a) Non	e or mese				
	o) Hotonous-service		Compound			* .			
10	(c) Homogeneous mixture		Suspension		*				
6.	The term nucleons refer to	(-/	o doponoion						
٠	a) Protons and electrons	b)	Only neutrons	, s		10			
	c) electrons and neutrons		Protons and neu	itrons	20	15			
7.	Elements in the modern periodic table are arran	ged	in groups an	d ne	rinds				
	a) 7.18 b) 18,7		17,8	d) 8,17					
8.	The animal without skull is			u) 0,17		- W			
	a) Acrania b) Acephalia	c)	Apteria	d) Acos	lomate				
9.	Companion Cells are closely associated with		# <sub>46</sub>	4) 1 (000	nomate				
	a) Sieve elements b) Vessel elements	c)	Trichomes	d) Guar	d cells				
10.	Bile helps in the digestion of			u, Ouu.	u 00110	9			
	a) Proteins b) Sugar	c)	fats	d) Carb	ohydrates	ě.			
11.	Diptheria affects the			,	onyunutes .				
	a) Lungs b) throat	c)	Blood	d) liver	W 8				
12.	is a structured delivery of information.			-,					
	a) slide show b) page	c)	Word Art	d) Pres	entation.	,			
I	Write any seven questions only. (Q.No.22 is	com	pulsory)	,		7x2=14			
13.	Compare Speed and Velocity	(4)			8	7.70.			
14.	On what factors the Pressure exerted by the Liqu	uid de	epends on?	20	- 10 E				
15.	List the main parts of an electric motor.								
16.	Write the electronic configuration of K and Cl.				d <sup>2</sup>				
	What are the uses of Plaster of Paris?	<b>3</b> %	a						
18.	Match the following.		<b>2</b> 0						
	a) Coelenterata - Snail				1				
	b) Platyhelminthes - Starfish	÷				0.6			
	c) Echinodermata - Tapeworm	***							
^	d) Mollusca - Hydra			Til .		e e			
9.	What is Complex tissue? Name the various kinds	of Co	omplex tissues?		3				
0.	Mention any two Vital functions of human kidney.			ů.		2			
1.	Give abbreviations for the following.		9	v		8			
	(a) FCI b) FPO	8.		30	CH/	9/Sci/1			
	P 14								

- 22. Find the Oxidation number of the elements in the following compound.
  - (a) C in CO,
- III Write any seven questions. (Q.No.32 is compulsory)

7x4 = 28

- 23. Differentiate Mass and Weight.
- 24. a) Fill in the blanks.
  - i) The instrument used to measure atmospheric pressure is -----
  - ii) A drinking straw works on the existence of -----
  - b) State Whether ture or false. If false correct the statement.
    - i) Ammeter is connected in Parallel in any electric circuit.
    - ii) Current can produce Magnetic field.
- 25. Explain two types of transformer.
- 26. Write the differences between elements and compounds and give an example for each.
- 27. a) Match the following.
  - a) Dalton
- Hydrogen atom model
- b) Chadwick
- Discovery of nucleus
- c) Rutherford
- First atomic theory
- d) Neils Bohr
- Plum pudding model
- Discovery of neutrons
- b) State Modern Periodic Law.
- 28. Write any four uses of bases.
- 29. List four characteristic features of fishes.
- 30. How will you differentiate the different types of transpiration?
- 31. Give an account of Classification of Bacteria based on the shape.
- 32. a) Light enters from air into a glass plate having refractive index 1.5. What is the speed of light in glass. (Speed of light in vaccum 3x108ms-1)
  - b) Find the mass of an object Weighing 98 N.
- IV Answer all the question.

3x7 = 21

- 33. a) Explain different types of Motion.
  - b) What is meant by Magnification? Write its expression.

(OR)

- a) Explain the construction and working of a hydrometer with diagram.
- b) Define Electric current and give its unit.
- 34. a) Explain Tyndall effect and Brownian movement with suitable diagram.
  - b) Write any two limitations of Mendeleev's Periodic table.

(OR)

- a) List down the differences between lonic and Covalent compounds.
- b) Define Aquaregia.
- 35. a) List out the differences between Mitosis and Meiosis.
  - b) Define Transpiration.

(OR)

- a) How are Vitamins useful to us? Tabulate the sources, deficiency diseases and symptoms of fat soluble Vitamins.
- b) Differentiate: Absorbtion and Assimilation.

CH/9/Sci/2