Reg.No.		j,	1
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COMMON HALF YEARLY EXAMINATION - 2019 STANDARD - IX

Tim	e : 2.30 hrs	Scie	nce	Marks: 75
1.	Choose the correct a	answer:		12 x 1 = 12
1.	Choose the correct or	ne.		
	a) mm < cm < m < kr	n	b) mm > cm > m > ki	m
	c) km < m < cm < m	n	d) mm > m > cm > k	*
2.	The size of an air bub			
	a) decreases	b) increases	c) remains same d)	may increase or decrease
3.	Electroplating is an ex			
	a) heating effect	The state of the s	c) flowing effect	d) magnetic effect
4.	transformer works on		b) DC only	c) both AC and DC
5.	Among the following			
. =	7 17 2 2	b) 18 ⁴⁰ Ar, 7 ¹⁴ N	c) ₁₄ ³⁰ Si, ₁₅ ³¹ P	d) 24 54 Cr. 19 39 K
6.		ed with law of triads then	Newlands is related w	
	a) Modern periodic la		b) Hunds rule	
		b) Paulis exclusion pri		
7.	Covalent bond is forr			
		ons b) sharing of electron	ns c) sharing a pair of e	electrons
8.		g is a complex tissue?		
	a) parenchyma		c) xylem	d) sclerenchyma
9.	Bile helps in the dige	The state of the s		
	a) proteins		c) fats	d) carbohydrates
10.		on and potatoes can be		-
	a) freezing		c) salting	c) canning
11.	. Data processing inve			
	a) seven		c) six	d) eight
12	. Pen drive a/an	device		
	a) output	b) input	c) storage	d) connecting cable
11.	Answer the following	ng questions any 7 (Qu	ies. No. 22 is compuls	sory) $7x2 = 1$
, 13	. Define standard unit.			
14	Define velocity.			
15	Define electric field.			
16	. Match the following:			
	 Magnetic material 			
2	2. non - magnetic m			
	Current and magn			1
	Electromagnetic i			
	4. Electric generator			
		configuration of K and C		
18		or false, if false, correct		
		racteristics of both metal	is and nonmetals.	
	Define transpiration.		*	
). What is an adultera	nt?		
	1: Define computer			
2	Name the parts of a	computer.		* * * * * * * * * * * * * * * * * * * *

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,		2	IX-SCI
III.	Answer the following que	estion any 7 (Ques. No. 32 is cor	npulsory) 7 x 4 = 28
23.	Write the rules that are followed	owed in writing the symbols of uni	ts in SI system
24.	i) Distinguish distance and	displacement.	
	ii) Compare speed and velo	ocity.	
25.	i) Density of mercury is 136	600 Kg m ⁻³ calculate the relative de	ensity.
	ii) State the advantages of a		
26.	State any five features of m	odern periodic table	
27.	List five characteristic reatu	ires of fishes	
28.	i) Give the technical terms	for the following	
	a) Growth depoendent mov	ement in plants	
	b) Growth independent move	vemenț in plants	
		Simlight	. 60
	ii) Fill in the blanks: 6C	O_2 + Chlorophyll \longrightarrow	+ 6O ₂ ↑
29.	Explain the structure of nep	phron.	
30.	Differentiate		
	a) Kwashiorkar from Maras	mus.	
	b) Macronutrients from Mic	ronutrients	
31.	Differentiate data and inform	mation.	
32,	i) Bring out any two differer	nces between input and output dev	ices.
	ii) Match the following:		
	1. III generation computer	- Integrated circuit	
	2. Text, number	- Information	
	3. Transistor	- Father of computer	
	4. Directly used	- Data	
	5 Charles Babbage	- II generation	

IV. Answer in detail:

 II generation 3x7 = 21

(OR)

33. How will you find the thickness of a one rupee coin?

Explain the principle, construction and working of a dc motor.

34. Explain Tyndall effect and Brownian movement with suitable diagram. (OR)

- a) Why do 35, Cl and 37, Cl have the same chemical properties? In what respect do these atoms differ?
- b) What are the limitations of mendeleev's periodic table?
- c) Fill in the following table according to the type of bonds formed in the given.

Molecule CaCl₂, H₂O, CaO, CO, KBr, HCl₂, CCl₄, HF, CO₂, Al₂Cl₆

lonic bond	Covalent bond	Coordinate covalent bond

- 35. a) List out the differences betweeen mitosis and meiosis.
 - b) What is nastic movement?

(OR)

Assertion and Reason

a) Assertion: Urea is excreted out through the kidneys.

Reason: Urea is a toxic substance.

- a) If both assertion and reason are true and reason is the correct explanation of assertion
- b) If both assertion and reason are true but reason is not the correct explanation of Assertion
- c) If assertion is true but reason is false.
- d) If both assertion and reason are false

b) Give appreviations for the following:

- i) ISI ii) FPO iii) AGMARK iv) FCI v) FSSAI
- c) List out the generations of computer.