Pre. Board Examination 2024

Class - 10th (E.M.)

Subject - Science

Time: 3.00 Hrs.	MM	: 10	00

Instructions: All question are compulsory.

- Objective type Questions No. 01 is divided into 'A' 'B' and (i) 'C' section (A) contain 05 multiple choice question Section (B) contain 05. Fill in the blanks and section (C) contains 05 make correct pair. Each question carry 1 mark total 15 marks are allotted.
- (ii) Q.No. 02 to 06 are very short answer type question Each question carry 02 marks. Maximum word limit of the answer is 30 words.
- (iii) Q.No. 07 to 10 are very short answer type question Each question carry 03 marks. Maximum word limit of the answer is 50 words.
- Q.No. 11 to 14 are short answer type question Each (iv) question carry 04 marks. Maximum word limit of the answer is 75 words.
- Q.No. 15 to 16 are long answer type question Each question (v) carry 05 marks. Maximum word limit of the answer is 100 words.
- Q.No. 17 to 18 are long answer type question Each question (vi) carry 06 marks. Maximum word limit of the answer is 150 words.
- Internal options are provided from Q.No. 11 to 18 (vii)
- Draw labelled diagram. Wherever necessary. (viii)
- Q.1. (i) IUPAC name of Ethyl alcohol is -
 - Methanol Ethanol (a) (b)
 - (c) (d) Propanol Benzene

	(ii)	Formula of Bauxite ore is -					
		(a)	MgCo ₃	(b)	Al ₂ O ₃ .2H ₂ O		
		(c)	Fe ₂ O ₃	(d)	SnO ₂		
	(iii)	Oxyg	sported by -				
		(a)	Arteries	(b)	Veins		
		(c)	Brain	(d)	Lymph		
	(iv) Instrument used for measuring the current flowing through an electric circuit is -						
		(a)	Voltmeter	(b)	Ammeter		
		(c)	Odometer	(d)	None of these		
	(v) Controls the quantity of sugar in blood -						
		(a) Parathyroid gland (b) Pancreas					
		(c)	Adrenal gla	nd (d)	Pineal gland		
(B)	Fill in the blanks -						
	(i)	pH value ofsolution is less than 7					
	(ii)	1 calorie = Joule					
	(iii)	Longest part of alimentary canal is					
	(iv) The process of removal of less reactive metal from the solution of its salt by a more reactive metal is called						
	(v)		mirror	is also	called diverging mirror		
(C)	Matcl	h the fol	lowing -				
	(i)	Tamai	rind -	renev	wable energy		
	(ii)	Carbo	nate ore -	first t	rophic level		
	(iii)	Creda) ·	virtua	al image		
	(iv)	Conve	ex mirro -	limes	tone		
	(v)	Produ	cer -	Turta	ric acid		
Q.2.	Define specific heat with its S.I. unit?						
Q.3.	What are the advantages of Mendeleev periodic table?						

- Q.4. What are trophic levels?
- Q.5. Filament of electric bulbs are made of Tungsten. Why?
- Q.6. What is called villi?
- Q.7. State the two laws of reflection.
- Q.8. What is fuse? What is the material used for fuse wire.
- Q.9. Explain the following -
 - (i) Ore
- (ii) l
 - Mineral
- (iii) Slag
- Q.10. ∠Explain fleming left hand rule?
- Q.11. State difference between food chain and food web.

OR

What can be your role to prevent the environment from loss.

Q.12. Explain the froth floatation process.

OR

Define calcination and Roasting with example.

Q.13. Draw a well labelled diagram of heart.

OR

Draw a well labelled diagram of excretory system of man.

Q.14. What do you mean by series combination of conductor.

Calculate total resistance of conductor joined in this combination.

OR

Write any three precautions which should be taken while doing electrical practicals.

- Q.15. Describe laboratory method of preparation of nitrogen under the following points -
 - (i) Method

- (ii) Chemical equation
- (iii) labelled diagram
- (iv) Use

OR

Explain laboratory method of preparation of hydrogen gas on the basis of the following point -

i) Method

- ii) Chemical equation
- iii) Labelled diagram
- iv) Use
- Q.16. Difference between sexual and asexual reproduction.

OR

Difference between self pollination and cross pollination.

Q.17. What is corrosion? Describe the factor which affect corrosion and the measures to prevent from corrosion.

OR

Explain Electrolytic Refining and Zone Refining.

Q.18. Difference between Alternating current and Direct current.

OR

State the properties of magnetic lines of force.