

VII (CBSE) SCIENCE Full Marks: 80

Full Syllabus Test

(All questions are compulsory) PHYSICS

1.	How	does	a fuse work when connected to circuit?	[2]	
2.	Name	e the 1	mode of transfer of heat in which medium is not required? How does the heat travel in air?	[1+1]	
3.	State whether the following motion is uniform or non-uniform? [3]				
	(i) A simple pendulum is oscillating.				
	(ii)		r moving on a busy road.		
	(iii)		prating spring in a sewing machine.		
4. State the two factors on which the time period of a simple pendulum depend.				[2]	
5.	Pijush moves along a rectangular path ABCD. He takes 2 min to travel each side. Plot a distance time graph and				
	explain whether the motion is uniform or non-uniform. [3]				
	_		BC = 6m, CD = 8m, DA = 6m		
6.	-		effects of electric current.	[1]	
7.	State	the cl	naracteristics of image formed by a plane mirror.	[1]	
8.			et a real image which is double of the object, placed infront of a convex mirror?	[1]	
9.	-	_	on the front of an ambulance are laterally inverted like <code>BOMAJUBMA</code> . Give reason.	[2]	
10.		What do you mean by overloading of an electric circuit? State two measures to avoid overloading. [1+2]			
11.	Draw a circuit diagram showing a bulb, a closed switch and a battery of four cells. Also show the direction of				
	curre	nt flo	wing through the circuit.	[3]	
12.				[2]	
	(i)	A ray	y passing along the surface of the mirror.		
	(ii) A ray passing along the normal of the mirror.				
13.	Expla	ain the	e phenomenon of dispersion.	[2]	
			<u>CHEMISTRY</u>		
14.	(i)	(a)	What is an indicator?	[4]	
		(b)	Three liquids are given to you. One is sulphuric acid, another is sodium hydroxide and the	third is a	
			salt solution. How will you identify them? You have only turmeric paper indicator.		
	(ii)	Whi	ch of the following bases is used as a cleansing agent?	[1]	
		A.	Magnesium hydroxide		
		B.	Calcium hydroxide		
		C.	Sodium hydroxide		
		D.	Ammonium hydroxide		
	(i)	(a)	What is a salt?	[4]	
		(b)	What are the different types of salts? Give one example of each.		
	(ii) Which of the following substances helps in reducing the irritation caused by the sting of an ant? [1]				
		A.	Vinegar		
		B.	Lemon juice		
		C.	Calamine (zinc carbonate)		
		D.	Orange juice		
16.	Nam	ame the cation and the anion in the salt – Calcium sulphate. [2]			
		Difference between basic radical and acid radical with suitable example. [2]			
18.	Dilute hydrochloric acid is added to sodium hydroxide, give a word equation and molecular equation of the same.				
	Is the equation written, a balanced equation give reason. [3]				
19.	Give symbol and charge of these following radical [2]				
	(a)	Nitra			
	(b)	Amn	nonium		

Time: 3 hrs.

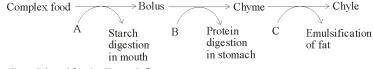


- 20. Give chemical formula of these following compounds. [2]
 - (a) Barium sulphate
 - (b) Sodium phosphate
- 21. Balance the equation: [5]
 - (a) $N_2 + H_2 \Longrightarrow NH_3$
 - (b) $P_4 + O_2 \rightarrow P_2O_5$
 - (c) $NO + O_2 \rightarrow NO_2$
 - (d) $NaHCO_3 + HCl \rightarrow NaCl + CO_2 + H_2O$
 - (e) $C_3H_6 + O_2 \rightarrow CO_2 + H_2O$

BIOLOGY

- 22. Name the inactive form of trypsin. [1]
- 23. How do fallen leaves help the soil in forest? [1]

24.



(i) Identify A, B and C. [1+1+1]

(ii) At what pH does B work in?

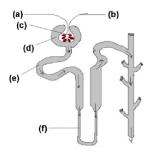
25. Define fertilization. [1]

26. Apart from lungs, toads respire by their _____. [1]
27. Name the covering of the heart.

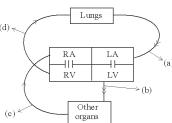
27. Name the covering of the heart.28. Define blood pressure. What is its measuring unit?[1]

28. Define blood pressure. What is its measuring unit? [2]
29. What is canopy? How it prevents soil erosion? [2]

30. Label (a) to (f).



31.



(i) What sort of blood is in (a) and (d)?

(ii) Identify (a) to (d).

32. Describe the mechanism of breathing in humans. [3]

33. Define respiration in a cell. What are its types? Write four differences between them. Define fermentation.

[1+1+2+1]