

## MP BOARD CLASS 10 SCIENCE PREVIOUS YEAR PAPER

## **SCIENCE-2016**

Class: 10th

(i) All the questions are compulsory. (ii) Q. Nos 1 to 4 are objective type questions. Each question carries  $1 \times 5=5$  marks. Total marks are  $5 \times 4=20$ . (iii) Internal options are given in Q. Nos 5 to 18. (iv) marks of each question are indicated against it. (v) Answer Nos 5 to 8 in about 30 words each. (vi) Answer Q.Nos 9 to 13 in about 75 words each. (vii) Answer Q.Nos 14 to 16 in about 120 words each. (viii). Answer Q.Nos 17 and 18 in about 150 words each. (ix). Draw a neat and clean labelled diagram whenever required,

1.	Fill in	Fill in the blanks: $1 \times 5 = 5$				
	(i)	Chemical equilibrium is only possible in vessel.				
	(ii)	The focal length of mirror is infinity.				
	(iii)	Distilled water is a of electricity.				
	(iv) Fermentation reaction occurs in presence of					
	(v)	The transportation of water and minerals in plants is done by				
2.	Choose	e the correct alternative:	$\times$ 5 = 5			
	(i)	The excretory organs of earthworm.				
	(a)	Liver (b) Nephridia (c)Lungs (d) Skin.				



	(ii)	The metal which	is stored in Ker	rosene Oil is		
	(	a) Iron (b) Coppe	er (c)Sodium (	d) Calcium.		
	(iii)	Saptrishi is				
	(2	) a comet (b) a co	onstellation (c	)a planet (d) a galaxy.		
	(iv)	The number of ch	romosomes four	nd in a human cell is		
	(2	) 23 pairs (b) 2	24 pairs (c)20	pairs (d) 22 pairs		
	(v)	The planet neares	t to the sun is			
	(a)	Jupiter (b)	Mercury (c)Sat	urn (d) Mars		
3.	Match	the columns.			$1 \times 5 = 5$	
	'A' 'B'		'B'			
	(i) (ii) (iii) (iv) (v)	Halley Bakelite Producer Heametite Bio-gas		<ul><li>(a) Iron</li><li>(b) Methane</li><li>(c)Star</li><li>(d) Green plants</li><li>(e)Synthetic plastic</li><li>(f) A comet.</li></ul>		
4.	Write	he answer in one se	entence each:		$1 \times 5 = 5$	
	(i)	Give the name of	discoverer of blo	ood groups.		
	(ii)	In which is the pu	rity of gold exp	ressed?		
	(iii)	What type of elec	tric current flow	s in domestic circuits		
	(iv)	What is the name	of respiratory or	rgan of fish?		
	(v)	Which properties	of plants are des	scribed in 'Rig veda'?		
5. (O		s the difference bet		naginary (virtual) images?		2



6. What is potential? Write its S.I. unit.	2
(OR) Write Ohm's law.	
7. What is denatured alcohol?	2
(OR) Write the name of two enzymes used in alcohol preparation from mola	asses.
8. Diffrentiate between stars and planets.	2
(OR) Write characteristics of terrestrial planets.	
9. What is hypermetropia? Give its reasons. Explain with the help of a label how is it corrected?	elled ray diagram 4
(OR) What is the differnce between compound microscope and telescope?	
10. What are the factors responsible for resistance of a conductor?	4
(OR) What precautions should we have taken while using electricity?	
11. Diffrentiate between nuclear fission and nuclear fusion.	4
(OR) Describe fixed dome type biogas plant with diagram.	
12. Describe the reproduction in Amoeba by binary fission method, with dis	agram. 4
(OR) Why Mendel selected pea plant for his experiment? Write any four rea	asons.
13. Explain quick vinegar method with diagram.	4
(OR) What is silver mirror test? Explain with chemical equation.	
14. What do you mean by pH value? Give its importance.	5
(OR) Write the chemical name, chemical formula, preparation method and two uses of plaster of Paris.	
15. Write the difference between aerobic and anaerobic respiration.	5
(OR) Explain the method of ingestion of food in Nepenthes (pitcher plant) with the help of diagram.	
16. Describe the functions of blood.	5
(OR) Explain the mechanism of reflex action with labelled diagram.	



17.

	(b)	Explain	forth floatation proc	ess.
(OR)	Give d	lescription	of extraction of sul	phur by Frasch process with labelled diagram.
18.	What i	is ozone la	yer? Write the subs	tances affecting ozone layer and describe the harmful effects. 6
(OI	R) Write	the mdec	inal importance of f	ollowing plants:
	(i) (iv)	Ginger Bel	(ii) Ashwagandha	

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(a) Explain magnetic seperation method of ore.