PERIODIC TEST - 3, 2018-19

CLASS - X SCIENCE

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Max. Marks: 80

Time: 3 Hours] **General Instructions:**

- Answer all the questions.
- (ii) Marks for each question in indicated against it.

SECTION – A	
 Write the name and formula of the second member of the carbon compounds h group – OH. 	aving functional
2. State the function of iris in human eye.	1
3. What is heredity?	1
What is monohybrid cross? Write the monohybrid ratio. 1:3	2
5. Write the S.I. unit of followings:	$\frac{1}{2} \times 4 = 2$
(a) Resistance	Const. Co.
(b) Resistivity	
(c) Power of lens	
(d) Potential difference	
Write the chemical name and formula of bleaching powder. How it is prep	pared? Write the
chemical equation for its preparation.	. 2
Define chlor-alkali process. Write its chemical equation. Which gas is evolved	ed at cathode and
anode?	2
Write the laws of refraction.	. 2
Write the motor rule.	2
Define food chain. In the following food chain 20,000 J of energy was available much energy would be available to the man in this food chain?	able to the plants.
What are homologous organs? Give examples.	2
20,000 > 2000 > 2007	P.T.O.

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M.	You being an environmentalist are interested in contributing towards the conservation of
7	natural resources. List four activities that you can do on your own.
1/3.	Choose the following:
4	6C, 8O, 10Ne, 11Na, 14Si
	(i) Element that should be in the same period.
	(ii) Elements that should be in the same group.
//	State reason for your selection in each case.
124.	Draw the electron dot structure of (a) ethene (b) Ethyne.
15/	A convex lens can form a magnified erect image as well as magnified inverted image of an
1	object in front of it. Draw ray diagrams to justify the above statement.
16.	State Ohm's law. Two resisters of 6 Ω and 3 Ω are connected in parallel. Find the equivalent
	resistance of the combination thus formed?
17.	A convex lens is of focal length 30 cm. Calculate at what distance should the object be placed
111	from the lens so that it forms an image at 60 cm on the other side of the lens. Find the magnification produced by the lens in this case.
16/	Draw a well labelled diagram of human female reproductive system and name the part where
19.	(a) eggs develop (b) fertilisation takes place (c) fertilised egg gets implanted.
19	Write the IUPAC name of followings:
11/	(a) CH ₃ CH ₂ CH ₂ Cl
	(b) CH ₃ CH ₂ CH ₂ CH ₂ OH - Maha
	(c) CH ₃ CH ₂ CH ₂ CH ₂ COOH_ S
/26.	Define the following terms:
//1	(a) Alloy
Section .	(b) Roasing
	(c) Ore
/2/1.	An organic compound 'A' of molecular formula C ₂ H ₄ O ₂ is widely used as preservatives in
11	pickles. This compound reacts with ethanol to give a sweet smelling compound 'B'.
5)"	(i) Identify the compound 'A'.
= ((ii) Write the chemical equation for the reaction involved.
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The state of the s	CC ME C-C', H. I.
	'N H

X - SCIENCE (S) (iii) Name the reaction. (iv) Name the gas produced when compound 'A' reacts with washing soda. Write the chemical equation for the reaction. Draw a well labelled diagram of human eye. Define (a) Power of accomodation (b) Far point. OR What is myopia? Write its causes and correction with suitable diagrams. Define the following terms: (a) Biomagnification (b) Ecosystem (c) Fossil Draw a well labelled diagram of L.S. of a carpel showing structure of ovule & briefly explain double fertilisation. Draw a well labelled diagram of human brain. Define reflex action. What is calcination? Distinguish between aerobic and anaerobic respiration. Distinguish between artery and vein. SECTION - B (PBQ) Kamla was playing in the garden. She was stung by a bee. Her mother immediately applied a coating of toothpaste on the affected area. (a) What was bee sting contain? Why did her mother applied toothpaste on the affected area? A student put a few drops of an unknown solution on the pH strip, the colour of pH strip changed to violet. (a) What is the solution? (b) Explain the nature of the solution. P.T.O.

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[4]	x - SCIENCE (S)
How ammeter and voltmeter are connected in a circuit?	2
36. Mention the shape of a guard cell and write its constituents.	2
31/ You are given two types of lens. How will you recognise, which one is cor	ncave and which is
convex ?	2
32. Draw diagram to show binary fission in amoeba.	1. 12
OR	
Draw diagram to show budding in Hydra.	2
What are the materials required while performing the experiment "to trace the path of r	
light through glass prism".	2
34 Define pH. State its maximum and minimum values.	2

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