

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
SAMPLE PAPER 03 FOR PERIODIC TEST-II (2017-18)

SUBJECT: SCIENCE (086)

BLUE PRINT FOR PERIODIC TEST-II: CLASS X

Chapter	VSA (1 mark)	SA – I (2 marks)	SA – II (3 marks)	LA (5 marks)	Practical Based Questions	Total
Chemical Reactions and Equations	--	--	3(1)	--	--	3(1)
Acids, Bases and Salts	--	--	--	--	2(1)	2(1)
Metals and Non-metals	--	--	--	5(1)	--	5(1)
Carbon and its compounds	1(1)	--	3(1)	--	--	4(2)
Life Process	--	--	3(1)	--	2(1)	5(2)
Control and Coordination	--	--	3(1)	--	--	3(1)
How do organisms reproduce?	--	--	--	5(1)	--	5(1)
Light - Reflection and Refraction	1(1)	--	3(1)	--	--	4(2)
Electricity	--	--	--	5(1)	--	5(1)
Magnetic Effects of Electric Current	--	2(1)	--	--	2(1)	4(2)
Total	2(2)	2(1)	15(5)	15(3)	6(3)	40(14)

MARKING SCHEME FOR PERIODIC TEST-II

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	2	02
SA – I	2	1	02
SA – II	3	5	15
LA	5	3	15
Pract Based Quest.	2	3	06
GRAND TOTAL			40

KENDRIYA VIDYALAYA SANGATHAN, HYDERABAD REGION
SAMPLE PAPER 03 FOR PERIODIC TEST-II (2017-18)

SUBJECT: SCIENCE

MAX. MARKS : 40

CLASS : X

DURATION : 1½HRS

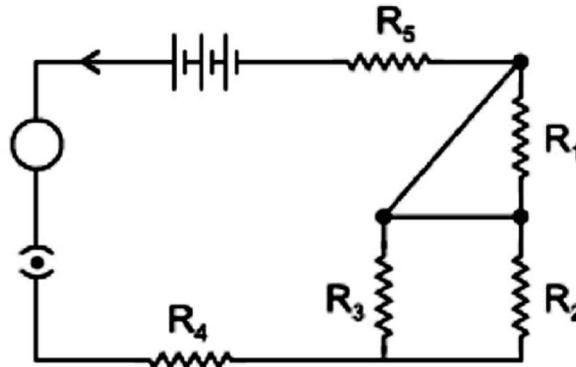
General Instructions:

1. All questions are compulsory.
2. The question paper comprises of **two Sections, A and B**. You are to attempt both the sections.
3. All questions of **Section-A** and **Section-B** are to be attempted separately.
4. Question number **1 to 2** in **Section-A** are **one mark** question. These are to be answered in **one word** or in **one sentence**.
5. Question numbers **3** in **Section-A** is **two marks** questions. These are to be answered in about **30 words** each.
6. Question numbers **4 to 8** in **Section-A** are **three marks** questions. These are to be answered in about **50 words** each.
7. Question numbers **9 to 11** in **Section-A** are **five marks** questions. These are to be answered in about **70 words** each.
8. Question numbers **12 to 14** in **Section-B** are questions based on practical skills and are **two marks** questions.

SECTION – A

1. Write the general formula of hydrocarbon alkene. Write the name of simplest alkene.
2. What is the magnification of the images formed by plane mirrors and why?
3. How is the strength of magnetic field near a straight current-conductor (a) related to the strength of current in the conductor? (b) is affected by changing the direction of flow of current in the conductor?
4. What is meant by:
(a) Displacement reaction
(b) Reduction reaction
(c) Combination reaction.
Write balanced chemical equation for each reaction:
5. What is meant by homologous series of carbon compounds? Classify the following carbon compounds into two homologous series and name them.
 C_3H_4 , C_3H_6 , C_4H_6 , C_4H_8 , C_5H_8 , C_5H_{10}
6. Draw a diagram of human respiratory system and label on it: (a) Diaphragm (b) Larynx
7. Define 'hormones'. Name the hormone secreted by thyroid. Write its function. Why is the use of iodised salt advised to us?
8. If the image formed by mirror for all positions of the object placed in front of it is always virtual and diminished, state the type of the mirror. Draw a ray diagram in support of your answer. Where are such mirrors commonly used and why?
9. (a) What is pollination? How does it occur in plants?
(b) How does pollination lead to fertilisation? Explain.
(c) Draw a diagram showing germination of pollen on stigma of a flower.

10. (a) Define corrosion.
 (b) What is corrosion of iron called?
 (c) How will you recognise the corrosion of silver?
 (d) Why corrosion of iron is a serious problem?
 (e) How can we prevent corrosion of iron?
11. Deduce the expression for the equivalent resistance of the parallel combination of three resistors R_1 , R_2 and R_3 .

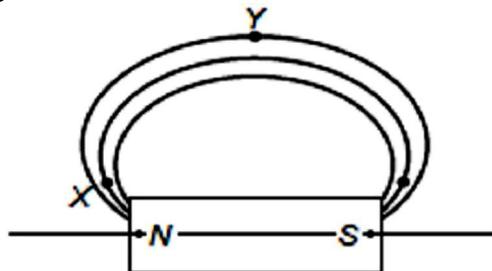


Consider the following electric circuit :

- (a) Which two resistors are connected in series?
 (b) Which two resistors are connected in parallel?
 (c) If every resistor of the circuit is of $2\ \Omega$, what current will flow in the circuit?

SECTION – B

12. Magnetic field lines are shown in the given diagram. A student makes a statement that magnetic field at X is stronger than at Y. Justify this statement. Also redraw the diagram and mark the direction of magnetic field lines.



13. Tooth enamel is one of the hardest substances in our body. How does it undergo damage due to eating chocolates and sweets ? How do toothpastes prevent this damage ?
14. Name the passage in sequence through which urine passes from kidneys to the outside in humans. How is urine prevented from flowing back into the ureters?