

TEST-10

SUBJECT: PHYSICAL SCIENCE

Academic Year-(2020-2021)

CLASS: X

CHAPTER: 10,11&12

NAME OF THE STUDENT: _____

ROLL NO: _____ MAX.MARKS:30

I. Answer the following questions**2x4=8**

1. Suggest an experiment to prove that the presence of air and water is essential for corrosion. Explain the procedure (OR)
How can you verify that a current carrying wire produces a magnetic field with the help of experiment?
2. What are the differences between Alkanes, Alkenes and Alkynes (OR)
Observe the table and answer the following questions (AS4)

Alkane	Methane	Ethane	Propane	Butane
Molecular formula	CH ₄	C ₂ H ₆	C ₃ H ₈	C ₄ H ₁₀

- a) What is the general formula of Alkanes?
b) Write the molecular formula of next alkane comes after Butane?
c) How many carbons in Pentane?
d) How many bonds present in Methane?

II. Answer the following questions**5x2=10**

3. What is the specialty of Carbon?
4. Complete the table (AS4)

Ore	Formula	Metal	Form
Magnesite			
	MnO ₂		
		Silver	

5. Define a) Mineral b) Ore
6. Draw magnetic field lines
7. Rajkumar said to you that the magnetic field lines are open and they start at north pole of bar magnet and end at south pole. What questions do you ask Rajkumar to correct him by saying "field lines are closed" ?

III. Answer the following questions**7x1=7**

8. What is "catenation"
9. Write the general formula of Alkenes?
10. What is gangue ?
11. Define magnetic flux density
12. What is the flux through the plane taken parallel to the field?
13. Mention any one of methods of prevention of corrosion
14. What is the name of the process of extraction of metals from their ores?

IV. Answer the following questions**10x1/2=5**

15. Name the simplest hydrocarbon?
16. Write the electronic configuration of carbon atom.
17. The most abundant metal in the earth's crust is ?
A) Silver B) Aluminum C) Gold D) Iron
18. Bauxite is an ore of _____
19. Name the phenomenon where in a metal such as iron is damage when exposed to moist air for a long time?
20. Write the formula of magnetic flux density.
21. Matching
A) Magnetic flux () X) Tesla
B) Magnetic flux density () Y) Weber
Z) Weber/metre²
22. weber/metre² =
A) Oersted B) Tesla C) Newton D) Watt
23. What do we call the self linking property of carbon?
24. Magnetic field is
A) one dimensional B) two dimensional C) three dimensional D) n-dimensional