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Schedule

6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> & 10<sup>th</sup>

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**(Classes Schedule: 6<sup>th</sup> to 10<sup>th</sup>)**

Time	Subjects
4:00 - 4:45	Science
4:45 - 5:30	Mathematics/Reasoning
5:30 - 6:15	Social Science (History, Civics & Geography)
6:15 - 7:00	English (Subjective and Objective)
7:00 - 7:30	Hindi



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**Chapter - 3**  
**Metals and Non-metals (MCQs)**

**1. By which reaction metal is obtained from metal oxide ?**

- (a) Liquefaction
- (b) Reduction
- (c) Calcination
- (d) Roasting

► (b) Reduction

**2. Which of the following metals does not displace  $H_2$  gas from dilute  $HCl$  or dilute  $H_2SO_4$ ?**

- (a) Mg
- (b) Cu
- (c) Zn
- (d) Al



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▶ (b) Cu

**3. Which of the following property is generally not shown by metals?**

(a) Electrical conduction

(b) Dullness

(c) Ductility

(d) Sonority

▶ (b) Dullness

**4. What is not true about calcinations?**

(a) To remove all organic matter

(b) To convert ore into metal

(c) To remove moisture from the ore

(d) To decompose carbonates and hydroxides

▶ (b) To convert ore into metal

**5. The lustre of a metal is due to:**



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- (a) Its high density
- (b) Presence of free electrons
- (c) Its high polishing
- (d) Its chemical inertness

▶ (b) Presence of free electrons

**6. Which of the following metal can we cut with the knife?**

- (a) Gold
- (b) Potassium
- (c) Iron
- (d) All of the above

▶ (b) Potassium

**7. Which oxide is neutral?**

- (a)  $\text{NO}_2$
- (b)  $\text{MgO}$



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(c) H<sub>2</sub>O

(d) None of the above

▶ (c) H<sub>2</sub>O

**8. Which of the following metals is extracted only by electrolysis?**

(a) Zn

(b) Al

(c) Fe

(d) Cu

▶ (b) Al

**9. Which non-metallic element is in liquid form?**

(a) Carbon

(b) Hydrogen

(c) Bromine

(d) Phosphorus



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► (c) Bromine

**10. Which of the following metals will not react with oxygen, even when heated very strongly in air?**

(a) Zn

(b) Al

(c) Ag

(d) Fe

► (c) Ag

**11. In the reaction  $M + O_2 \rightarrow MO_2$  (super oxide) the metal is:**

(a) Li

(b) Na

(c) K

(d) Ba

► (c) K





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**12. Which is the least conductor of heat?**

- (a) Gold
- (b) Platinum
- (c) Silver
- (d) Lead

▶ (d) Lead

**13. The property of metal by which it can be drawn into wires is called**

- (a) Conductivity
- (b) Malleability
- (c) Ductility
- (d) Decorating

▶ (c) Ductility

**14. The best conductor of electricity among the following is:**

- (a) Hg (Mercury)



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(b) Al (Aluminum)

(c) Ag (Silver)

(d) Au (Gold)

▶ (c) Ag (Silver)

**15. The metal that can be easily cut by knife is:**

(a) Sodium

(b) Copper

(c) Magnesium

(d) Iron

▶ (a) Sodium

**16. The sodium metal can be stored in:**

(a) Benzene

(b) Alcohol

(c) Kerosene

(d) Toluene



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▶ (c) Kerosene

**17. The non-metal which is a liquid at room temperature—**

(a) Oxygen

(b) Fluorine

(c) Sulphur

(d) Bromine

▶ (d) Bromine

**18. Which of the following metal reacts neither with cold water nor with hot water but reacts with hot steam to produce hydrogen gas?**

(a) Mg

(b) Fe

(c) Na

(d) Ca

▶ (b) Fe



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**19. An alloy is:**

- (a) A element
- (b) A mixture
- (c) An isomer
- (d) A metalloid

▶ (b) A mixture

**20. Which allotrope of carbon conducts electricity?**

- (a) Graphite
- (b) Diamond
- (c) Fullerene
- (d) Both Graphite and Diamond

▶ (a) Graphite

**21. An iron nail is dipped in copper sulphate solution. It is observed that**

- (a) The colour of the solution remain unchanged



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- (b) The colour of the solution becomes red.
- (c) The colour of the solution turns to light green
- (d) None of the above

► (c) The colour of the solution turns to light green

**22. What happens when non-metals react with water?**

- (a) Hydrogen gas is formed
- (b) Carbon dioxide gas is formed
- (c) Non-metals do not react with water
- (d) None of the above

► (c) Non-metals do not react with water

**23. Which non-metal have semi conductor property?**

- (a) Boron
- (b) Carbon



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(c) Silicon

(d) Magnesium

► (c) Silicon

**24. Which non-metal is the best conductor of electricity?**

(a) Phosphorus

(b) Fluorine

(c) Graphite

(d) Bromine

► (c) Graphite

**25. Carnallite is the mineral of:**

(a) Na

(b) Ca

(c) Mg

(d) All of the above



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▶ (c) Mg

**26. The most ductile metal among given options is:**

(a) Silver

(b) Zinc

(c) Copper

(d) Platinum

▶ (d) Platinum

**27. The non-metal that is liquid at room temperature is:**

(a) Bromine

(b) Chlorine

(c) Hydrogen

(d) Iodine

▶ (a) Bromine



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**28. The most abundant metal in the earth crust is:**

(a) Al

(b) Fe

(c) O

(d) Cu

▶ (a) Al



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