



CHEMISTRY

NCERT - NCERT Chemistry(Telugu)

METALS AND NON-METALS

Exercise

1. Explain the physical properties of metals with suitable examples.



Watch Video Solution

2. You are given two samples. How do you distinguish which one is metal and which is non-metals?



[Watch Video Solution](#)

3. Which metals are used in making jewellery?
Why?



[Watch Video Solution](#)

4. Which substance liberates hydrogen when reacts with metals?



[Watch Video Solution](#)

5. In a chemical reaction iron is unable to displace zinc from zinc sulphate. Why?



[Watch Video Solution](#)

6. Why cooking pans don't have metal handles?



Watch Video Solution

7. Which gas makes a pop sound if exposed to lighted matchstick?



Watch Video Solution

8. Why are bells made up of metals instead of wood?



Watch Video Solution

9. Imagine the human life without metals, write briefly about the consequences.



Watch Video Solution

10. The questions Raheem might have asked
Generally metals are hard solids. How mercury,
which is a fluid, be a metal ?



Watch Video Solution

11. The questions Raheem might have asked
Are there any other metal substances which
are exceptional ?

A. sodium,pottasium

B. iron,brass

C. carbon,silica

D. carbon,vanadium

Answer:



Watch Video Solution

12. Discuss the acidic and basic nature of the metals and non-metals with suitable experiments.



Watch Video Solution

13. You might have seen an electrician while using the screwdriver.

Why does a screwdriver used by electricians not have metal handle?



Watch Video Solution

14. Talk to an electrician. Look at the handles of his tools. Are the handles made of the same materials? If not why?



Watch Video Solution

15. What do cooking appliances conduct ?



Watch Video Solution

16. What could be the reason for that?



Watch Video Solution

17. Do all metals react with water?



Watch Video Solution

18. Do you find any difference in the taste of a raw and a ripe fruit ?



Watch Video Solution

19. When do you notice a pop sound is a chemical reaction?



Watch Video Solution

20. What could be the reason for that?



Watch Video Solution

21. Do you find any change in colour and smell of water in some water samples? What are your reasons?



Watch Video Solution

22. Which of the samples did not shine even after you cleaned them with sand paper ?



Watch Video Solution

23. Observing appearance and colour of some materials:

Generally metals are lustrous. Do all lustrous materials are metals?



Watch Video Solution

24. Observing appearance and colour of some materials:

We all know that mirror is lustrous. Can a mirror be called metal?



Watch Video Solution

25. Do you think coal is sonorous?



Watch Video Solution

26. What similarity do you notice among materials which produce sound ?



Watch Video Solution

27. Identifying malleability of material:

What is the property of drawing material to make wire is called?



Watch Video Solution

28. Write an experiment to know the reaction of oxygen with metals and non-metals.



Watch Video Solution

29. List out the uses of the non-metal sulphur in daily life.



Watch Video Solution

30. _____ foil used in inner packing of food materials and toffees.



[Watch Video Solution](#)

31. Name two non metals that have metallic lusture.



[Watch Video Solution](#)

32. Most abundant element in earth crust is



[Watch Video Solution](#)

33. How do the water (aqueous) solutions of Magnesium oxide and calcium oxide respond to litmus paper ? How would you classify them ?



[Watch Video Solution](#)

34. What are the six important elements with which human body is made up of ?





[Watch Video Solution](#)

35. Why does the colour of copper sulphate solution change when an iron nail is dipped in it?



[Watch Video Solution](#)

36. Do all the materials get rusted or react with oxygen in the air?



[Watch Video Solution](#)

37. Why are pressure cookers provided with wooden or plastic handles ?



Watch Video Solution

38. What happens when non-metallic oxides are dissolved in water ?



Watch Video Solution

39. You might have seen an electrician while using the screwdriver.

What materials does it contain?



[Watch Video Solution](#)

40. You might have seen an electrician while using the screwdriver.

Why does a screwdriver used by electricians not have metal handle?



[Watch Video Solution](#)

41. What are non-metals?



Watch Video Solution

42. Do you find any difference in the taste of a raw and a ripe fruit ?



Watch Video Solution

43. When do you observe pop sound with a burning agarbathi?



Watch Video Solution

44. Recall the names of the some of the laboratory acids and bases that you know. Write down their names in and identify metal/non-metal present in them, which form oxides when react with oxygen. Take the help of your teacher.





[Watch Video Solution](#)

45. What is ductility?



[Watch Video Solution](#)

46. What is malleability?



[Watch Video Solution](#)

47. Distinguish between lustrous and non-lustrous materials.



Watch Video Solution

48. Why are the cooking utensils made up of aluminium or alloys of iron and copper?



Watch Video Solution

49. “Lusture and Sonority are the common properties associated with metals”. Name two metals and non-metals that are an exception to this statement.



Watch Video Solution

50. Pinky found a sort of brown dust covering the iron rods of her bed room window. What do you think it is? And how is it deposited on the shining black iron rods?





[Watch Video Solution](#)

51. State the four important physical properties of non-metals.



[Watch Video Solution](#)

52. What are the uses of metals ?



[Watch Video Solution](#)

53. What could be the reason for that?



Watch Video Solution

54. Cut a piece of Sodium carefully with a knife and throw it in a deep frying pan full of water. What do you observe? (Note:- Do not touch the piece of Sodium directly with hand)



Watch Video Solution

55. How do you prove that a more reactive metal can replace a less reactive metal from its salt? Perform an activity and write (record) your observations.



Watch Video Solution

56. What is the reaction of metal oxides with acids ?



Watch Video Solution

57. Sulphur dioxide is.....

- A. Basic oxide
- B. Acidic oxide
- C. Neutral oxide
- D. Non of the above

Answer:



Watch Video Solution

58. Name the hardest material.

A. Gold

B. Diamond

C. Platinum

D. Silver

Answer:



Watch Video Solution

59. The metal which is liquid at room temperature

A. Mercury

B. Sodium

C. Copper

D. Phosphorus

Answer:



Watch Video Solution

60. In a lead storage battery

A. Sulphur

B. Mercury

C. Graphite

D. All

Answer:



Watch Video Solution

61. a) All non - metal oxides are basic in nature.

b) All metal oxides are acidic in nature

Which of the above is incorrect ?

A. Acidic

B. Neutral

C. Both a & d

D. Basic

Answer:



Watch Video Solution

62. Why are gold and silver often used in making ornaments?



 [Watch Video Solution](#)

63. Non-metallic oxides are in ___ nature

 [Watch Video Solution](#)

64. Fill in the blanks:metal is used in making aircraft machines.

 [Watch Video Solution](#)

65. Bells are made of



[Watch Video Solution](#)

66. Fill in the blanks: Bridges are constructed bymetal



[Watch Video Solution](#)

67. Fill in the blanks: Mercury is used in.....



[Watch Video Solution](#)

68. Fill in the blanks: House wiring is generally made up of wires of.....metals.



Watch Video Solution

69. Fill in the blanks: Screwdriver handles are made up of.....



Watch Video Solution

70. The handles of utensils are made up of



[Watch Video Solution](#)

71. Why are metals good conduction of heat and electricity?



[Watch Video Solution](#)

72. Explain the physical properties of metals with suitable examples.



[Watch Video Solution](#)

73. some questions in Raheem's mind. can you guess those questions on metals? Write them.



[Watch Video Solution](#)

74. Discuss the acidic and basic nature of the metals and non-metals with suitable experiments.



[Watch Video Solution](#)

75. How do you appreciate wide range utility of aluminium right from utensils to space craft?



Watch Video Solution

76. Dumping of waste material made up of metals and non metals leads to environment pollution. Do you support the statement? Give your justification with suitable examples.



Watch Video Solution

77. Name the hardest material.

A. Gold

B. Copper

C. Platinum

D. Diamond

Answer:



Watch Video Solution

78. Name the best malleable metals.

A. Gold

B. Silver

C. Copper

D. Platinum

Answer:



Watch Video Solution

79. Most ductile metal is

A. Copper

B. Gold

C. Silver

D. None

Answer:



Watch Video Solution

80. Which metal is the best conductor of electricity?

A. Silver

B. Gold

C. Copper

D. Zinc

Answer:



Watch Video Solution

81. What is the nature of metal oxides ?

A. Basic

B. Acidic

C. Neutral

D. All the above

Answer:



Watch Video Solution

82. What are metalloids ?

A. Metals

B. Non-metals

C. Both

D. None

Answer:



Watch Video Solution

83. Which one of the following is used in batteries and pencil leads?

A. Diamond

B. Graphite

C. Sulphur

D. None

Answer:



Watch Video Solution

84. Which one of the following is used to cut iron sheets?

A. Copper

B. Zinc

C. Diamond

D. None

Answer:



Watch Video Solution

85. Among the following most reactive metal is

A. Sulphur

B. Carbon

C. Phosphorus

D. Iodine

Answer:



Watch Video Solution

86. The metal which is stored in kerosene

A. Calcium

B. Gold

C. Sodium

D. Magnesium

Answer:



Watch Video Solution