Here are 30 questions for each category based on the chapter "Metals and Non-Metals" from your textbook.

SECTION A

(1)	Multiple	Choice	Questions	(MCQs)
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) Multiple Choice Questions (MCQs)
1. Which of the following metals is liquid at room temperature?a) Aluminiumb) Mercuryc) Irond) Zinc
2. Which non-metal is essential for respiration?a) Nitrogenb) Carbonc) Oxygend) Hydrogen

- 3. What is the process of coating iron with zinc called?
 - a) Corrosion
 - b) Galvanisation
 - c) Alloying
 - d) Sublimation
- 4. Which of the following is a good conductor of electricity?
 - a) Sulfur
 - b) Carbon
 - c) Copper
 - d) Phosphorus
- 5. Which metal is used in making aircraft due to its lightweight?
 - a) Iron
 - b) Aluminium
 - c) Copper
 - d) Zinc
- 6. The most abundant non-metal in the Earth's crust is:
 - a) Nitrogen

(3) True or False

- 21. Gold and silver are highly reactive metals.
- 22. Mercury is used in thermometers because it is a good conductor of heat.
- 23. Metals are generally bad conductors of electricity.
- 24. Graphite is the only non-metal that conducts electricity.
- 25. Stainless steel is an example of a metal alloy.
- 26. Iron nails rust when exposed to dry air.
- 27. Nitrogen gas is used in filling food packets.
- 28. Zinc is used for galvanising iron to prevent rusting.
- 29. Platinum is a good conductor of electricity.
- 30. All metals are solid at room temperature.

SECTION B

(4) Odd One Out (Give Reason)

- 31. Iron, Aluminium, Oxygen, Copper
- 32. Gold, Silver, Platinum, Mercury
- 33. Diamond, Graphite, Charcoal, Silicon
- 34. Nitrogen, Oxygen, Sulfur, Copper
- 35. Bronze, Brass, Aluminium, Steel
- 36. Sodium, Zinc, Potassium, Lithium
- 37. Rusting, Galvanisation, Corrosion, Oxidation
- 38. Lead, Aluminium, Copper, Oxygen
- 39. Coal, Sulfur, Iodine, Mercury
- 40. Magnesium, Silicon, Germanium, Antimony

(5) Matching Questions

- 41. Iron a) Used in aircraft
- 42. Aluminium b) Used in electrical wires
- 43. Copper c) Used in jewellery
- 44. Gold d) Prevents rusting
- 45. Zinc e) Found in blood
- 46. Carbon f) Used in making pencils
- 47. Oxygen g) Essential for respiration

- 48. Chlorine h) Used for water purification
- 49. Silver i) Used in mirrors
- 50. Sulfur j) Used in vulcanisation of rubber

(6) Name the Technique Used for Separation

- 51. Separating iron from a mixture of sand and iron filings
- 52. Removing salt from seawater
- 53. Separating oil from water
- 54. Obtaining copper from copper sulfate solution
- 55. Extracting iron from its ore
- 56. Separating nitrogen from air
- 57. Purifying gold from impurities
- 58. Removing dust from air in industries
- 59. Separating components of crude oil
- 60. Separating colored dyes from ink

(7) Give Examples of

- 61. A metal used in making bridges
- 62. A non-metal used in fertilizers
- 63. A metal used in making utensils
- 64. A non-metal used in making antiseptics
- 65. A metal that does not corrode easily
- 66. A metal used in batteries
- 67. A non-metal used in matchsticks
- 68. A metal used in making electrical cables
- 69. A non-metal used in medicines
- 70. A metal used in making coins

SECTION C

(8) Short Answer Questions

- 71. Define corrosion and give an example.
- 72. What is an alloy? Give two examples.
- 73. Why do we use gold and silver for making ornaments?

- 74. What is electroplating?
- 75. Why does iron rust?
- 76. Give two reasons why aluminium is used in making aeroplanes.
- 77. How does galvanisation prevent rusting?
- 78. What are metalloids? Name two metalloids.
- 79. What is the role of nitrogen in the atmosphere?
- 80. Why is diamond the hardest known substance?

(9) Diagram-Based Questions

- 81. Draw a diagram of a separating funnel and label its parts.
- 82. Illustrate the process of rusting of iron.
- 83. Draw a diagram showing the structure of a diamond and graphite.
- 84. Show the electroplating process using a labeled diagram.
- 85. Draw a simple electric circuit using copper wire as a conductor.

(10) Reasoning-Based Questions

- 86. Why is graphite used in making pencil leads?
- 87. Why do non-metals have low melting and boiling points?
- 88. Why is copper used in electrical wires instead of iron?
- 89. Why does gold not corrode easily?
- 90. Why are food packets filled with nitrogen?

(11) Chemical Formula & Symbol-Based Questions

- 91. Write the chemical formula for rust.
- 92. What is the symbol of sodium?
- 93. What is the chemical formula of water?
- 94. Write the chemical formula for ammonia.
- 95. What is the symbol of gold?

This completes 30 questions in each category as per the exam format. Let me know if you need modifications or additional questions! \mathscr{Q}