

# NATURE OF MATTER AND COMPOSITION BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

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Created By [Careericons](#) Team

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**Q1.** Which one of the following petroleum refinery products has the lowest boiling point?

- a) Gasoline
  - b) Kerosene
  - c) Diesel
  - d) Lubricating oil
- 

**Q2.** The chemical technique applied to find out age of fossils is known as

- a) Photosynthesis
  - b) Carbon dating
  - c) Nuclear fusion
  - d) Fermentation
- 

**Q3.** The atomic weights are expressed in terms of atomic mass unit. Which one of the following is used as a standard?

- a)  $^{16}\text{O}_{8}$
  - b)  $^1\text{H}_1$
  - c)  $^{12}\text{C}_6$
  - d)  $^{35}\text{Cl}_{17}$
- 

**Q4.** What is the weight of one atom of Hydrogen in grams?

- a)  $6.62 \times 10^{-24}$
- b)  $6.023 \times 10^{-23}$

c)  $1.66 \times 10^{-24}$

d) None of these

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**Q5.** Two substances A and B when brought together form a substance C with the evolution of heat. The properties of C are entirely different from those of A and B. The substance C is

a) a mixture

b) an element

c) a compound

d) none of these.

**Q6.** Solutions with low concentrations of solutes are

a) solvents

b) dilute

c) concentrated

d) None of these

**Q7.** Kerosene is a mixture of

a) saturated hydrocarbons

b) aromatic hydrocarbons

c) aliphatic hydrocarbons

d) alicyclic hydrocarbons

**Q8.** Vermicompost is an/a

- a) organic bio fertilizer
  - b) inorganic fertilizer
  - c) toxic substance
  - d) synthetic fertilizer
- 

**Q9.** Which of the following is considered to be a pure substance?

- a) Muddy water
  - b) Sodium chloride
  - c) Granite
  - d) Milk of magnesia
- 

**Q10.** At NTP, the least volume will be occupied by 15 g of which one of the following ?

- a)  $N_2$
  - b)  $NH_3$
  - c)  $O_2$
  - d) Ne
- 

**Q11.** White gold is used in jewelry and contains two elements, gold and palladium. A jeweler has two different samples that are both identical in appearance and have a uniform composition throughout. What can be said about the samples?

- a) The samples have variable compositions and are classified as metallic solutions.
  - b) The materials are heterogeneous mixtures and can be classified by their components
  - c) They are homogeneous mixtures and be classified as metallic alloys.
  - d) The samples are heterogeneous mixtures that can be separated using magnetic properties.
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**Q12.** Which of the following is a colloid ?

- a) Silicic acid

- b) Urea solution
- c) Sugar solution
- d) NaCl solution

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**Q13.** The main component of Gobar gas is?

- a) Ethylene
- b) Chlorine
- c) Hydrogen
- d) Methene

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**Q14.** To weld metals together, high temperature is required. Such a high temperature is obtained by burning

- a) Methane in oxygen
- b) Acetylene in oxygen
- c) LPG in oxygen
- d) Acetylene in nitrogen

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**Q15.** Which one of the following elements shows variable equivalent mass?

- a) Calcium
- b) Zinc
- c) Silver
- d) Iron

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**Answers to the above questions :**

**Q1. Answer: (a)**

**Q2. Answer: (b)**

**Q3. Answer: (c)**

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**Q4. Answer: (c)**

**Q5. Answer: (c)**

C is a compound which is formed as a result of reaction between A and B.

**Q6. Answer: (b)**

dilute solutions have low concentration of solid.

**Q7. Answer: (c)**

**Q8. Answer: (a)**

**Q9. Answer: (b)**

Sodium chloride being compound is a pure substance. Granite, muddy water and milk of magnesia all are mixtures.

**Q10. Answer: (a)**

**Q11. Answer: (c)**

As they have uniform composition throughout they are considered a homogeneous mixture.

Both samples are a mixture of two metals (gold and palladium) and thus are alloys.

**Q12. Answer: (a)**

Those substances which can not pass through the membrane are termed colloids.

Example: silicic acid.

Whereas sugar solution, urea and NaCl can pass through the membrane.

**Q13. Answer: (d)**

**Q14. Answer: (b)**

**Q15. Answer: (d)**

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