



# CHEMISTRY

## BOOKS - VGS PUBLICATION-BRILLIANT

### SUMMATIVE ASSESSMENT

#### Summative Assessment

1. Write a daily life application of Multiple reflection of sound.



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2. Draw diagram showing that the refraction of a light ray through a glass slab.



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3. Imagine and write how the rocket gets accelerated.



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4. Draw a diagram showing that the acceleration of a body in uniform circular motion is directed perpendicular to its motion.



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5. Predict how the velocity of light is changed when it travels from a material with higher refractive index to a material with lower refractive index.





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6. Write a daily life situation where you apply the process of evaporation



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7. Write a situation where you observe Newton's first law of motion from your daily life.



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8. Predict and write the changes that took place in temperature and changes observed in the state of matter when a student is heating a beaker containing ice cubes.



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9. Calculate the mole ratio of 240g of calcium and 240g of Magnesium.



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**10.** If the velocity of sound in air is 340 m/s, then calculate the wave length when frequency is 256 Hz.



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**11.** How do you verify experimentally that the gases are highly compressible as compared to liquids and solids?



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**12.** List any four properties of a colloid and mention any two properties in which colloids differ from suspension



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**13.** What is valency of an atom? Explain how an atom can achieve an octet in their outermost shell and also explain how an atom can be chemically stable.



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**14.** What do you understand by the term chemical reaction? Write any two examples for both exothermic reactions and thermal decomposition reactions.



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**15.** Explain in your own words about the state of thermal equilibrium of bodies and write any two differences between Heat and Specific Heat.



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**16.** State Archimede's principle and write the experimental procedure to prove it.



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**17.** Write the experimental procedure and list out the materials required to show that the moving object can do work.



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18. Which of the following substances is most diffusible?

A.  $KMnO_4$ , in water

B. Dhoopstick smoke in air

C. Water in sponge

D. All of these

**Answer:**



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**19.** Which is not fluid?

A. Water

B. Carbon-di-oxide

C. Coconut oil

D. Wood

**Answer:**



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**20.** A freely falling body experiences

A. Weight

B. Weightlessness

C. More weight state

D. Zero gravity state

**Answer:**



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**21. Waves used in ultrasonography scanning**

A. Light

B. Ultrasonics

C. Gamma Rays

D. Radio Waves

**Answer:**



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22. Minimum distance between sources of sound and reflecting surface for an ECHO is ( Taking velocity of sound in air to be 330 m/s )

A. 16.5 mt

B. 18.5 mt

C. 20.mts

D. 25 mts

**Answer:**



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**23.** Property of gas released during heating of calcium carbonate ( $CaCO_3$ ) is

A. It puts off flame with pop sound

B. It brightens the flame brilliantly

C. It puts off flame

D. No change in flame

**Answer:**



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**24.** If velocity of certain mass body is doubled,  
its potential energy

A. Gets doubled

B. Gets 3 times multiplied

C. Gets 4 times multiplied

D. No change

**Answer:**



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**25.** Hydraulic machines work on .....  
principle



A. Archimedes

B. Pascal

C. Boyle

D. Charles

**Answer:**



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**26. Critical angle is .....**

- A. Angle of refraction when incident angle is  $90^\circ$
- B. Incident angle when refracted angle is  $90^\circ$
- C. Angle of refraction when incident angle is  $0^\circ$
- D. Incident angle when refracted angle is  $0^\circ$

**Answer:**



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27. Volume of a sphere is 250 CC and its mass is 500 gm. Then the density of sphere is.....

A. 2.5

B. 1.5

C. 0.5

D. 2

**Answer:**



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