

GDS TUTORING
FALL TERM 2023
GENERAL SCIENCE VIRTUAL ASSESSMENT



SHOW WHAT YOU KNOW!!!

Instructions to Students:

1. Read each question carefully.
2. Answer ALL questions
3. Follow ALL instructions.

TIME ALOTTED: 35 Minutes

DO YOUR BEST 😊

SECTION A- MULTIPLE CHOICE (15 Marks)

Instructions: Read each statement carefully. Choose the best possible answer by circling the letter A, B, C or D **ONLY**.

1. Which picture shows a physical change?



A



B



C



D

2. The conch belongs to the group called ____.

A. Protists

B. Mollusk

C. Worms

D. Arthropods

3. Which is an example of a cephalopod?

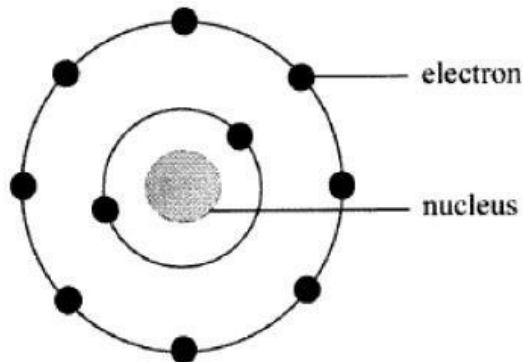
A. Groper

B. Lobster

C. Octopus

D. Turtle

4. This diagram shows the electrons in an atom.



What is the number of protons in the nucleus of this atom?

A. 2 Protons

B. 6 Protons

C. 8 Protons

D. 10 Protons

5. Which is **NOT** an example of a chemical change?

A. Digestion

B. Cooking

C. Melting

D. Decomposition

6. Which of the following is an annelid?

A. Earthworm

B. Snail

C. Hydra

D. Housefly

7. Which atomic particle has a negative charge?

A. Orbitals

B. Protons

C. Neutrons

D. Electrons

8. Which of the following is a characteristic is common to a bee and a crab?

A. Constant body temperature

B. External ear

C. Body covered by exoskeleton

D. Vertebrae present

9. Which of the following is not an arthropod?

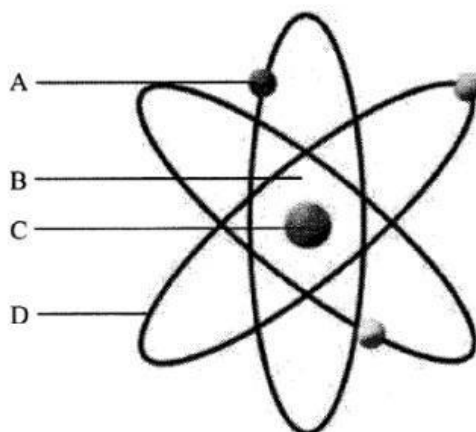
A. Sea lice

B. Crab

C. Beetle

D. Sea sponge

10. Where are the protons found in this atom?



11. Choose the animal that is NOT an invertebrate.

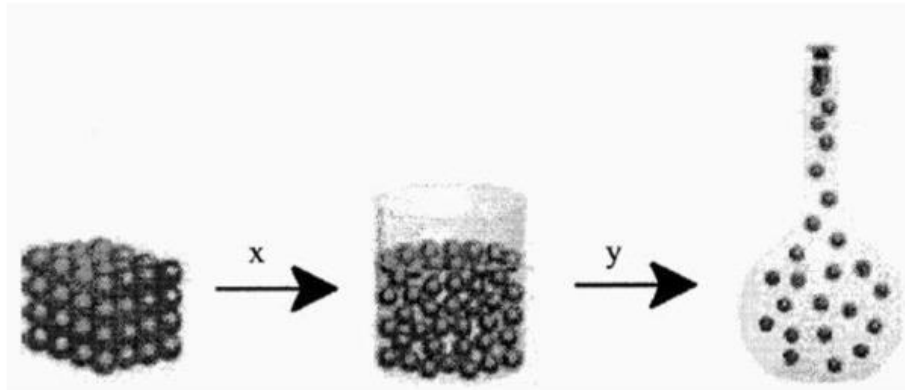
A. Conch

B. Fly

C. Frog

D. Starfish

12. Water can exist as a solid, liquid or gas. When heat is added or taken away, a change of state occurs.



Which processes are taking place at arrow X and arrow Y?

	process	
	x	y
A	condensation	freezing
B	evaporation	melting
C	freezing	condensation
D	melting	evaporation

13. Which of the following is a bivalve?

A. Clam

B. Jellyfish

C. Conch

D. Scorpion

14. Which phylum contains organisms with soft, longish, flat bodies?

A. Cnidarians

B. Flatworms

C. Echinoderms

D. Roundworms

15. Which is true of freezing water?

A. Changing Chemically

B. Changing Physically

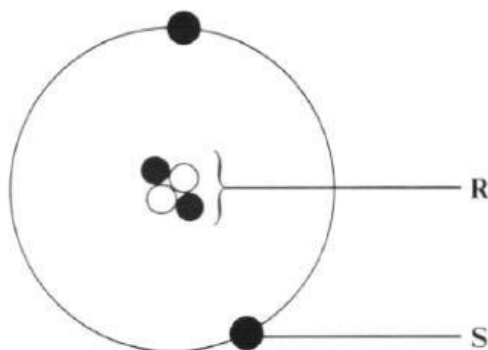
C. Gaining energy

D. Gaining heat

Section B- Structured Questions (20 marks)

Instructions: Answer ALL questions on the lines provided.

1. This diagram represents a helium atom.



A. Define the term atom.

_____ [2]

B. (i) Name the parts labeled R and S

R _____

S _____ [2]

(ii) The part labelled R consists of two different subatomic particles. Name the two particles.

1 _____

2 _____ [2]

C. There are **THREE** states of matter. A gas is one state. Name the other two states.

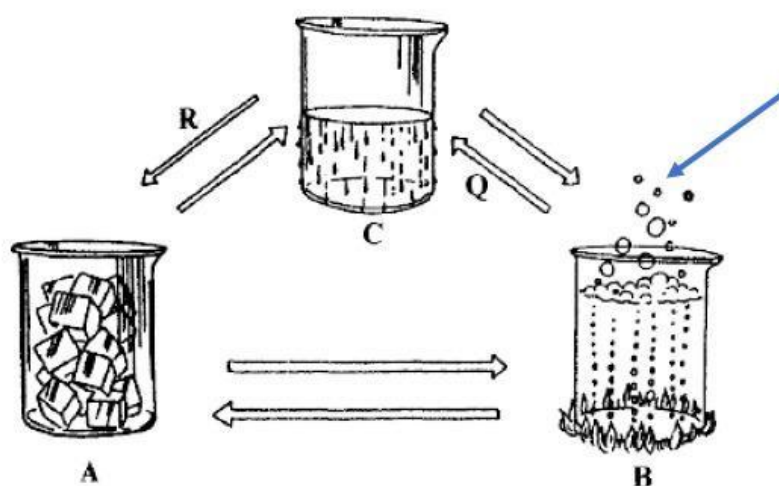
1 _____

2 _____ [2]

D. Name the state of matter that has a definite shape. _____ [1]

E. Give one property of a gas. _____ [1]

2. The diagram shows the changes in the three states of matter.



A. Identify the states of matter shown in A, just above B and C.

A _____

B _____

C _____

[3]

B. Name the **changes of state** at Q and R

Q _____

R _____

[2]

C. Name the form of energy which must be added or taken away to cause a change of state.

[1]

D. During a science investigation, Damya recorded the temperatures in beakers A, B and C.

Suggest a temperature for the water in **BEAKER B**.

Temperature _____ [1]

E. Describe the particle arrangement of the material in **BEAKER A**.

_____ [1]

F. Matter can undergo two types of changes. These changes can be either **physical** or **chemical**.

(i) Name the type of change shown in the diagram above. _____ [1]

(ii) Give one reason for your choice.

_____ [1]