Classedge School		
	Question Paper	
Class	Marks :	
Subject	Time :	
Name: Roll No. :	Division :	

The acceleration produced in a body of given mass is directly proportional to the ______.

- A. Shape of the body
- B. Size of the body
- C. Force applied on the body.
- D. Material of the body.

Question 2

The S.I. unit of force is _____.

A.	B.
C.	D.

Question 3

What is the relationship between force (F), mass (m) and acceleration (a)?

A. F=m÷a B. F=m+a C. F=m×a D. F=m-a

Question 4

What is the C.G.S. unit of force?

- A. newton
- B. dyne
- C. joule
- D. erg

Why are wheels attached to heavy luggage?

- - A. To ease the moving by increased friction
 - B. To give a fashionable look
 - C. To ease the moving by reduced friction
 - D. To keep a balance between the applied forces on the luggage

Question 6

Can frictional force stop an object?

- A. No, friction only slows an object
- B. Yes, when it overcomes the applied force

Question 7

What principle is used to determine the density of liquids?

- A. Principle of relative density
 - B. Principle of density
 - C. Principle of relative mass
 - D. Principle of relative volume

Question 8

Α.	B.
C.	D.

Question 9

Which instrument is usually used to measure the mass of a solid?

- A. Physical balance
- B. Eureka can
- C. Beaker

Question 10

What is the formula for calculating the volume of a regular body?

- A. Area ÷ Height
- B. Height + Area
- C. Area × Height
- D. Area Height

The mass and volume of three substances *A*, *B* and *C* are plotted below at standard temperature and pressure. Which substance has the least density?



Question 12

Which instrument is used to measure the volume of an irregular solid?

- A. Measuring scale
- B. Measuring tape
- C. Measuring Cylinder

Question 13

Which liquid has the highest density?

- A. Water
- B. Alcohol
 - C. Mercury

Question 14

A.	B.
C.	D.

Question 15

Steel sinks in water while a ship made up of steel floats in water. Which of the following is the correct reason for this?

- A. Density of ship is equal to that of steel
- B. Density of water is equal to that of steel
- C. Density of steel is less than that of ship
- D. Density of ship is less than that of water

Question 16

What is the SI unit of density?

- A. g/cm²
- B. kg/m³
- C. kg/m²
- D. g/cm

How much is the barometric height measured by a simple mercury barometer at sea level?

Α.	76 cm
Β.	54 cm
C.	101 cm

Question 18

Which instrument is used to measure altitude?

- A. Altimeter
- B. Barometer
- C. Odometer

Question 19

What is the relation between the atmospheric pressure and the pressure inside the human body at sea level?

- A. Atmospheric pressure > Pressure inside human body
- B. Atmospheric pressure < Pressure inside human body
- C. Atmospheric pressure = Pressure inside human body

Question 20

People use narrow pipe straw to drink juice from a glass. This is possible due to presence of.......

- A. liquid pressure
- B. atmospheric pressure
- C. gravitational pull
- D. frictional pressure

Question 21

The pressure exerted by the atmospheric air is known as........

- A. atmospheric pressure
- B. biosphere
- C. troposphere
- D. All of the above

Question 22

Which instrument is used to measure atmospheric pressure?

- A. Altimeter
- B. Barometer
- C. Odometer

Which type of barometer does not contain any liquid?

- - A. Mercury barometer B. Fortin's barometer
- C. Aneroid barometer

Question 24

What is buoyancy equal to?

- Α. Weight of the liquid.
- B. Weight of the solid.
- C. Weight of the displaced Liquid.
- D. Weight of the displaced solid.

Question 25

What is buoyancy?

Α.

The downward force exerted by a gas, liquid or any other fluid that opposes the weight of an immersed object.

B. The upward force exerted by a gas, liquid or any other fluid that opposes the weight of an immersed object. C.

The tangential force exerted by a gas, liquid or any other fluid that opposes the weight of an immersed object. D.

The tangential force exerted by a gas, liquid or any other fluid that is in line with the weight of an immersed object.

Question 26

Generally wood floats on water. Why?

- A. Because wood is less dense than water.
- B. Because wood is denser than water.
- C. Because wood and water have the same density.
- D. Because wood has a property of never sinking.

Question 27

Which scientist first explained the concept of buoyancy?

- Α. Newton
 - Β. Joule
- C. Thomson
- D. Archimedes

Why does the egg not sink in salt water?

- Α.
 - A. Density of saltwater is higher than that of egg
 - B. Density of saltwater is lower than that of egg
 - C. Salt increases the surface tension of water

Question 29

Which force helps the swimmer to stay afloat in water?

- A. Frictionalforce
- B. Gravitational force
- C. Buoyant force
- D. Electrostaticforce

Question 30

Which sea vehicle can float and submerge in water?

- A. Submarine
- B. Hovercraft
 - C. Ships

Question 31

What upward force is exerted by water on an object immersed in it?

- A. Weight
- B. Upthrust
- C. Viscous force
- D. Surface tension

Question 32

What is the upthrust on a body immersed in a liquid equal to?

- A. Weight of the body
- B. Volume of the body
- C. Volume of the liquid displaced by the body
- D. Weight of the liquid displaced by the body

Question 33

What is the SI unit of upthrust?

- A. N
- B. kg m
- C. Pa
 - D. Nm

In which liquid will a wooden cork experience maximum upthrust?

- A. Water
- B. Mercury C. Acetone
- D. Milk