

RATU NAVULA COLLEGE**YEAR 12 PHYSICS
SUPPLEMENTARY
WORKSHEET 2 2021**

*Attempt all questions in your physics exercise book.

FY12CE 2020 SAMPLE

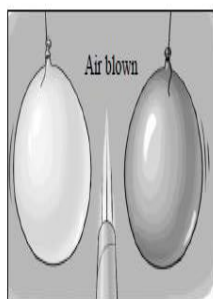
1. The diagram given below shows a very common example of Bernoulli's principle.



Source: <http://content.time.com/>

The application depicted by the above diagram is

- | | |
|-------------------|--------------|
| A. atomiser. | C. aerofoil. |
| B. venturi meter. | D. air wing. |
2. Viscosity is a property of fluids that
- A. describes its pressure.
B. indicates resistance to flow.
C. indicates the direction of flow.
D. describes the shape of its particles.
3. Two balloons were held side by side and air was blown in between them as shown below.

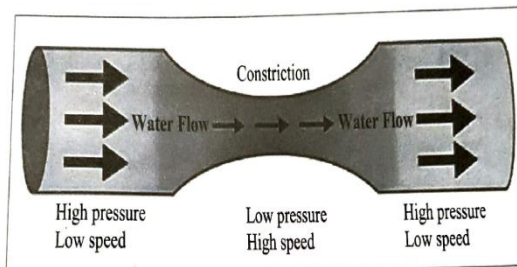


When air was blown the balloons came closer together. Use Bernoulli's Principle to explain the observation in the above set-up. (2 marks)

FY12CE 2020

4.

The diagram given below represents an application of Bernoulli's Principle.



The Bernoulli's application shown above is

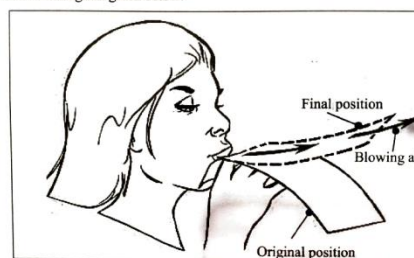
- | | |
|---------------------|----------------------|
| A. an aerofoil. | C. an atomiser. |
| B. a venturi meter. | D. an airplane wing. |

The property of fluids that indicates resistance to flow is known as

- | | |
|------------------|------------------|
| A. viscosity. | C. elasticity. |
| B. shear stress. | D. shear strain. |

6.

In an experiment a Year 12 Physics student used a strip of paper and blew air above it as shown in the diagram given below.



Source: <https://www.123rf.com>

It was observed that the strip of paper rises from its original position. Use Bernoulli's principle to explain the observation in the above experiment. (2 marks)