

# NEW AL WUROOD INTERNATIONAL SCHOOL, JEDDAH, K.S.A

Affiliated to CBSE – New Delhi, Affiliation No. 5730008



## WORKSHEET-1

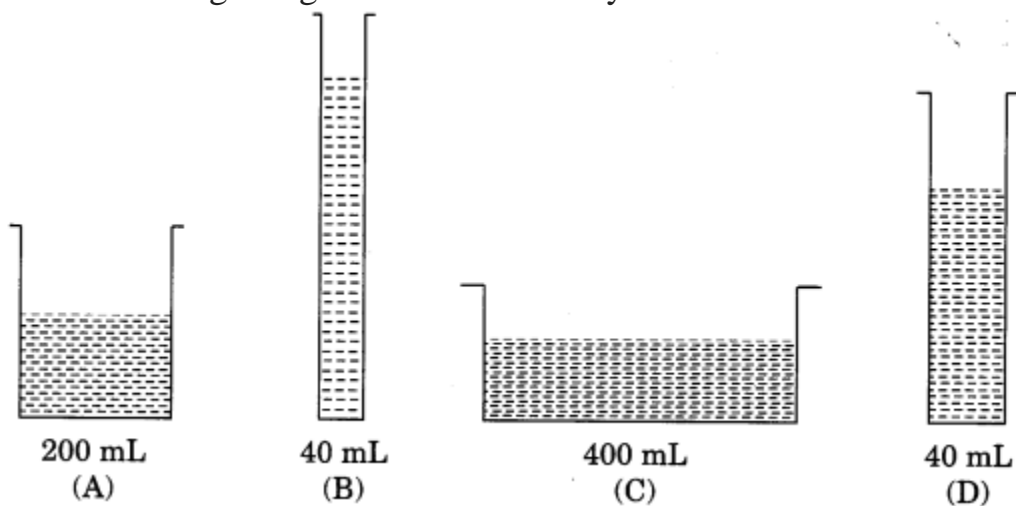
**GRADE: 8 – ANNUAL EXAMINATION (2020--2021)**

**SUBJECT: SCIENCE**

Block-22 & 27

### I. Answer the following questions:

1. We know that there is a huge amount of atmospheric pressure on us. But we do not experience its effect why?
2. Why do sea divers wear specially designed suits?
3. Two rods: A and B, having same weight and equal length have different thickness. Rod A is thinner while Rod B is thicker. They are held vertically on the surface of sand. Which one of them will sink more? Why?
4. It is difficult to cut cloth using a pair of scissors with blunt blades. Explain.
5. Observe the figures given below carefully.



Volume of water in each vessel is shown above. Arrange them in order of decreasing pressure at the base of each vessel. Explain the reason.

6. A force of 150 N is being applied over an area measuring  $0.50\text{m}^2$ . Calculate the pressure on the object ensuring you give the correct units.
7. A camel can easily walk on sand but a man finds it difficult. Why?
8. What is pressure? What is the relation of pressure with area on which it is applied?
9. Why does nose bleed at high altitude?

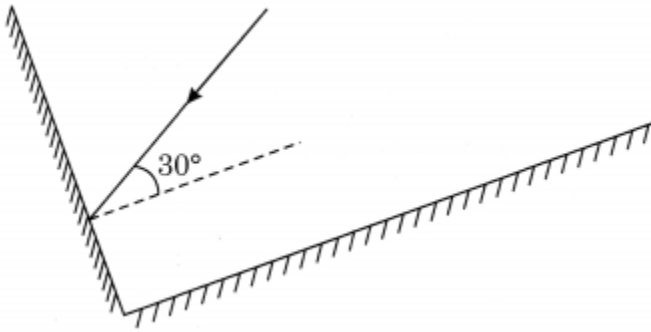
10. What is the cause of atmospheric pressure?
11. Why is our body not crushed under atmospheric pressure?
12. Why are the shoulder bags provided with the broad straps?
13. Why there is an atmosphere around Earth while many planets don't have?
14. Why does a person with high blood pressure sweat a lot?

### **Light: Reflection and Refraction**

#### **II. Answer the following questions:**

1. What happens if we pass the light on the mirror along the normal?
2. Mention the five English letters that don't show lateral inversion on suffering reflection from a plane mirror?
3. State True or False: Two mirrors inclined to each other give multiple images.  
a). true b) false
4. Why black objects appear black?
5. Why light travels fastest in vacuum?
6. Choose the correct option: Angle of incidence is equal to the angle of reflection.  
a). Never b). Sometimes c). under special conditions d). Always
7. State True or False: No image is formed at the blind spot of the eye.  
a). true b). false
8. Which of the following works on the concept of multiple reflections?  
a) Telescope  
b) Binoculars  
c) Kaleidoscope  
d) Sunglasses
9. Angle of incidence is  $15^\circ$ , then what is the angle of reflection?  
a)  $15^\circ$   
b)  $30^\circ$   
c)  $45^\circ$   
d)  $60^\circ$
10. How does light enable us to see something?
11. What is the angle of incidence of a ray if the reflected ray is at an angle of  $90^\circ$  to the incident ray?

12. Two mirrors meet at right angles. A ray of light is incident on one at an angle of  $30^\circ$  as shown in Fig. . Draw the reflected ray from the second mirror.



13. Which medium will bend light more – glass or water? Why?

14. What is the order of colors in a spectrum of 'white light'?

15. A coin kept at the bottom of a glass bowl full of water appears to be higher than it actually is. Explain why this happens.