

B) Answer the following subquestions. (5)

1. Define : Echo

2. Match the following.

A

B

1) Saturated brine

a) Oxidation of colour

b) Crystallization of salt

3. Complete the co-relation

Single bond : saturated hydrocarbons :: Multiple bonds : _____ .

4. State whether the following statement is true or false and rewrite it.

A Concave mirror is used in floodlight.

5. Write the number of images formed when the angle between two plane mirror is 120°

Q2. A) Give scientific reason. (Any 2) (4)

1. The roof of a movie theatre and a conference hall is curved.

2. Bleaching powder has the odour of chlorine.

3. Convex mirrors are fitted outside of the car.

B) Answer the following subquestions. (Any 3) (6)

1. Write any two uses of diamond.

2. Distinguish between Acid and Base by stating any two points of difference.

3. Write any two harmful effects of using artificial food colours.

4. Complete the following chemical reaction and write the names of the products formed.

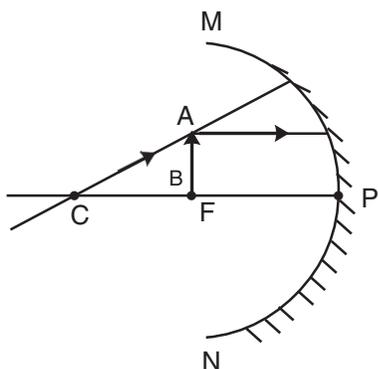


5. The mass of a cannon is 500 kg and it recoils with a speed of 0.25 m/s. What is the momentum of the cannon?

Q3. Answer the following subquestions. (Any 5)

(15)

- 1) Find the concentration of the given solution in both gram/litre and mole/litre for "2g NaOH in 50 ml solution."
- 2) Redraw the given figure by completing it and also complete the table given below.



| Points | Answers |
|--------------------------|---------|
| 1) Position of the image | |
| 2) Nature of image | |
| 3) Size of the image | |

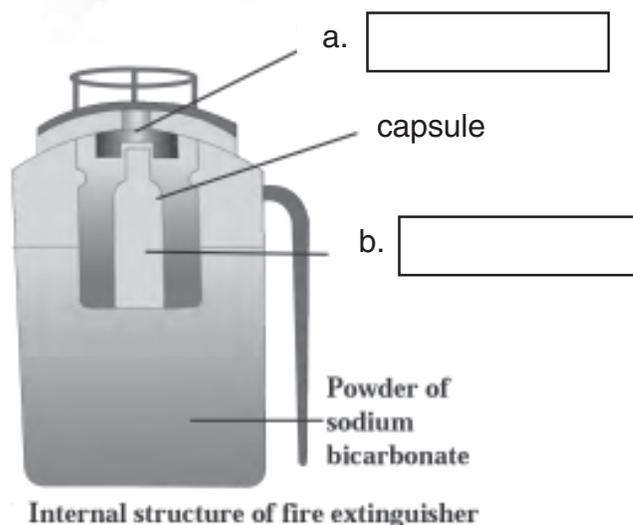
- 3) Write any three properties of Teflon.
- 4) A convex mirror has focal length of 18 cm. The image of an object kept in front of the mirror is half the height of the object. What is the distance of the object from the mirror?
- 5) Write short note on 'Biogas plant'
(figure not expected)
- 6) Write any three uses of "fullerene".
- 7) Write a short note on 'Anodizing technique'.
- 8) Complete the paragraph by using appropriate words given in the bracket.
(angles, rough, direction, sound, reflection, plane)

Like a light waves, _____ waves too, get reflected from a solid or a liquid surface. These waves also follow the laws of _____. A smooth or a _____ surface is needed for the reflection of sound. The _____ of the incident sound wave and reflected sound wave make equal _____ with the perpendicular to the surface and all these three lie in the same _____.

Q4. Answer any one of the following subquestions.

(5)

1) Observe the given diagram and answer the following questions.



1. Label the parts given in the figure

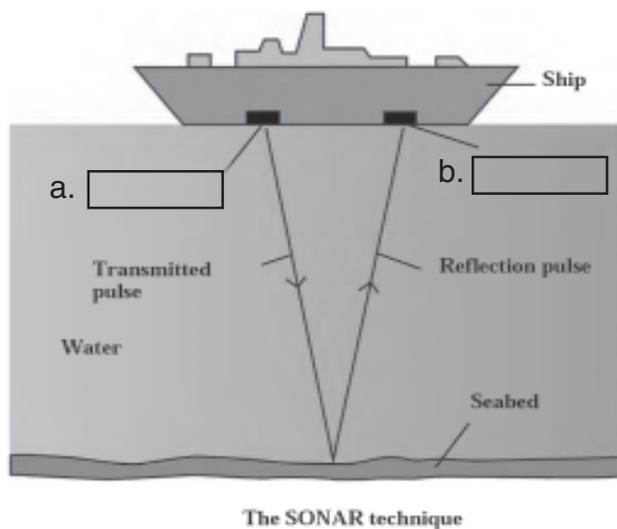
a. _____ b. _____

2. Write the chemical reaction that occur during the use of fire extinguisher.

3. Write any one use of fire extinguisher.

4. Write any two uses of liquid CO_2 .

2) Observe the given diagram and answer the following questions.



1. Write the full form of 'SONAR'

2. Label the given parts

a. _____ b. _____

3. Write any 2 uses of SONAR.
4. Complete the paragraph of “ working of SONAR” by using the words given in the bracket.

(transmission, distance, ultrasonic, velocity)

The receiver converts the _____ sound into electrical signals and these signals are properly interpreted. The time difference between _____ and reception is noted. This time and _____ of sound in water give the _____ from the ship of the object which reflects the waves.



