

## ST. LAWRENCE HIGH SCHOOL



## A JESUIT CHRISTIAN MINORITY INSTITUTION

• Subject- Physical science

Worksheet - 21

Class - 7

Date -2.05.2020

**Chapter: Light** 

## Answer the following questions (MCQ): (1×15):

- 1. On which theory nature of light depends upon:
- A Wave theory
- B Particle theory
- Both A and B
- Only A
- 2 Why light is said to have a dual nature?
- A It exhibits the properties of wave and particles.
- B It exhibits the properties of reflection and diffraction.
- c It has both interference and polarisation effect.
- None of the above
- 3 When angle of incidence in denser medium is greater than critical angle, will total internal reflection take place or not?
- A It will
- B It won't take place
- may take place
- it is a property of total external angle
- 4 Sun is a good example of
- A Luminous objects
- B Non-luminous objects
- Transparent objects
- Opaque objects

- In vacuum, Light travels at a speed of
- $^{\rm A}$  3.0  $\times$  107 m s-1
- B 30 × 108 m s-1
- D 3.0 × 108 m s−1
- 6 Choose wrong, size of image formed in a plane mirror
- A could be taller than the mirror
- B the height of the image depends on the object distance
- the width of the image is the same as of the object
- the image height depends on the object height
- Normal, incident ray and reflective ray lie at a same point in
- A Reflection only
- **B** Refraction only
- Reflection and refraction both
- None of them
- 8 Ratio equal to constant (in refraction) is
- A sin r/sin i
- B sin r (sin i)
- sin i/sin r
- sin i²/sin r
- Which object does not reflect more light?
- A Polished Surface
- **B** Shining Surface
- **C** Unpolished
- Both A and B

Name a metal which is the best reflector of light?  A Gold  B Silver  C Iron  Magnesium
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11 An incident ray is:
The point at which incident ray falls on the mirror
The ray of light which is sent back by the mirror
The ray of light which falls on the mirror surface
■ The ray which makes right angle to the mirror surface
Which statement is correct about the laws of reflection: (i) The incident ray, normal ray and the reflected ray all lie in the same plane. (ii) The angle of reflection is always equal to the angle of incidence. (iii) The angle of incidence is equal to the angle formed by normal ray. (iv) The angle of reflection is equal to 900. Options are:
A Both (i) and (ii)
Both (ii) and (iii)
Both (iii) and (iv)
(i), (ii) and (iv) are correct
<ul> <li>When a parallel beam of incident light is reflected as a parallel beam in one direction, this reflection is known as:</li> <li>A Regular reflection</li> <li>Diffuse reflection</li> <li>Interference</li> <li>Diffraction</li> </ul>
14 Total internal reflection occurs when
A light passes from a denser to a lighter medium
B light comes into air from vacuum
c light goes to vacuum from air

15 If we observe a pebble in a pool, pebble would appear to be

A deeper in the water than it really is

B of same depth in the water as it has

c nearer to the surface than it really is

invisible

Teacher- Piyali Halder

D light passes from denser to less dense medium