PRISM WORLD

Std.: 10 (English) **Science - I** **Marks: 20**

Date: **Time: 1 hrs**

Chapter: 6

Q.1 A) Choose the correct alternative and rewrite the sentence **(1)**

1) When a ray of light travels from an optically denser medium to an optically rarer medium, the ray bends

a. towards the normal

b. away from the normal

c. straight

d. backward

B) Answer the following questions. **(2)**

i) Find co-related terms

Reflection : Velocity remains same : Refraction : .....

ii) State true or false.

Spectrum of light was first observed by Albert Einstein.

Q.2 A) Give scientific reason. (Any one) **(2)**

1) Planets do not twinkle.

2) Situation : The pencil in water appears to be bent.

i. How will the pencil appears if then is no water in the beaker. (1)

ii. Give the reason. (1)

B) Answe the following questions. (Any two) **(4)**

i) Distinguish between

Refraction of light through glass prism and Glass slab

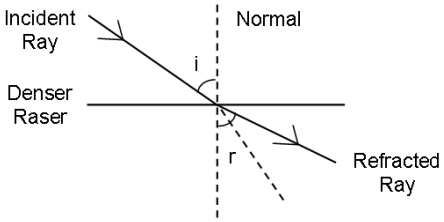
ii) Write Short Notes on

Spectrum of light.

3) What is meant by reflection of light ? Name different types of reflection.

Q.3 Answer the following questions. (Any two) **(6)**

1) Observe the given figures and answer the following question.



i. How is the ray moving in the diagram?

ii. Give reason for your answer.

2) The depth of water in a vessel when seen from air appears to be less.

i. Draw a well labelled diagram.

ii. Give the reason for same

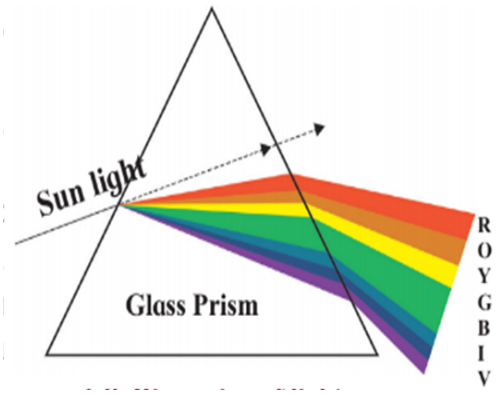
3) Complete the paragraph:

(refractive, total internal relfection of light, rainfall, prisms, dispersed, refracted)

Rainbow is a combined effect of dispersion, ... and ..... It can be seen mainly after a ..... small droplets of water act as small ..... When light rays from the Sun enter these droplets, it gets refracted and ..... Then internal reflection takes place and after that once again the light gets ..... while coming out of the droplet.

Q.4 Answer the following questions. (Any one) **(5)**

1)



i. Which phenomenon is shown.
ii. Name all the components of white light in sequence.
iii. Who was the first person to use glass prism.
iv. Which light bends the least and which bends the most.
v. What is the name given to this beams of seven colours of light.

2) Explain the below diagram in detail.