E.D.U.C.A.T.I.O.N. POINT

"THE AIM OF EDUCATION IS THE KNOWLEDGE NOT OF FACT, BUT OF VALUES"

Time:- 2Hr **Class:-10th** **Max Marks:- 37**

Science Test **Min Marks:- 30**

Qus1 An incident ray makes an angle of 35 degree with the surface of plane mirror. What is the angle of reflection? (1)

Qus2 David is observing his image in a plane mirror. The distance between mirror and his image is 4m. If he moves 1m towards mirror then the distance between him and his image will be? (2)

Qus3 If the radius of the curvature of a spherical mirror is 20cm, what is his focal length? (2)

Qus4 We wish to obtain an erect image of an object using a concave mirror of focal length is 15cm. what is the nature of the image? (2)

Qus5 Find the size, nature and position of an image formed when an object of size 1cm is placed at a distance which with give us the position of image? (5)

Qus6 An object 5cm high is placed at a distance of 10cm from a convex mirror of radius of curvature 30cm. find the nature, position and size of image?(5)

Qus7 A beam of light passes from air into substance X. If the angle of incidence be 72 degree and the angle of reflection is 40 degree. Calculate the reflective index of X. Sin 72= 0.951, Sin 40= 0.642? (2)

Qus8 Light enters from air into a glass plate having refractive index 1.50. What is the speed of light in glass? (Speed of light in vacuum= $3x10^{-8}$) (2)

Qus9 Convex lens is of focal length 10cm. What is its power? (2)

Qus10 Define Accommodation? (2)

Qus11 What happens to the image distance in the eye when we increase the distance of an object from an eye? (2)

Qus12 Give the 3 defects of eye and explain any one? (3)

Qus13 The far point of myopic person is 80cm in front of the eyes. What is the nature and power of lens is required to correct it? (3)

Qus14 Explain the Tyndall Effect? (2)

Qus15 When the sun is setting, the light from it has to travel a _____ thickness of the earth's atmosphere and only _____ wavelength _____ light is able to reach us sunset is therefore _____. (2)

(Greater, Longer, Red, Red)