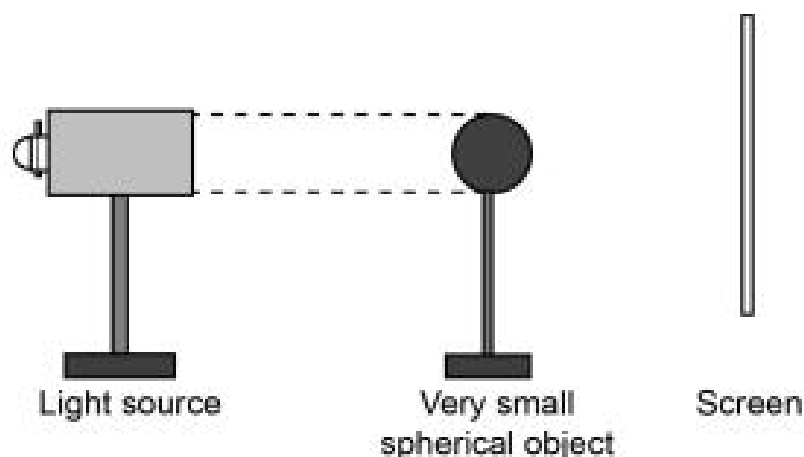
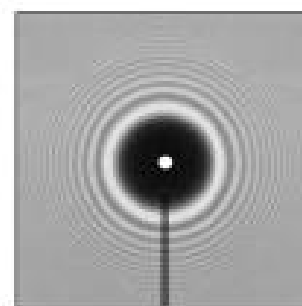


Question 6**(6 marks)**

An experiment was conducted to investigate the nature of light. A parallel beam of monochromatic light was directed at a very small spherical object and a white screen was positioned behind the object (Diagram 1). The pattern observed on the white screen is shown in Diagram 2. (Note: diagrams not to scale.)

Diagram 1**Diagram 2**

- (a) Discuss how the pattern in Diagram 2 was produced. (5 marks)

- (b) From this experiment, what conclusion can be made regarding the nature of light? (1 mark)
